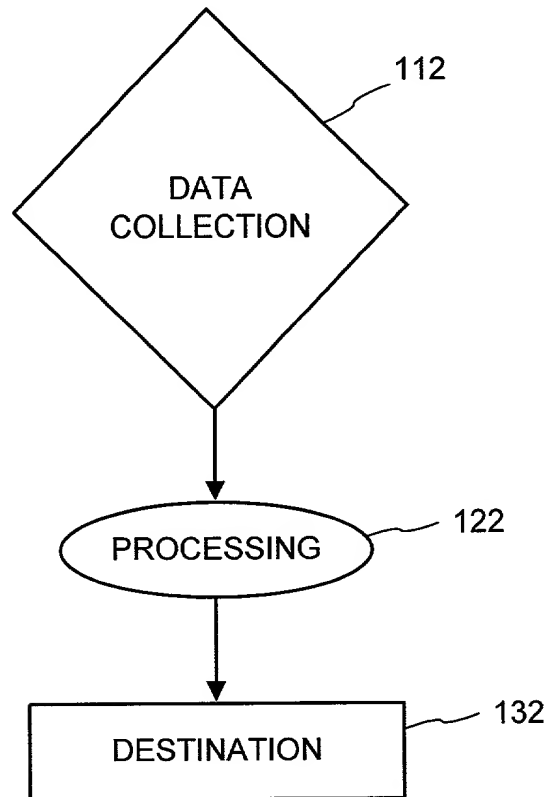


FIG. 1

102



202010-01-01 09:26:50

FIG. 2

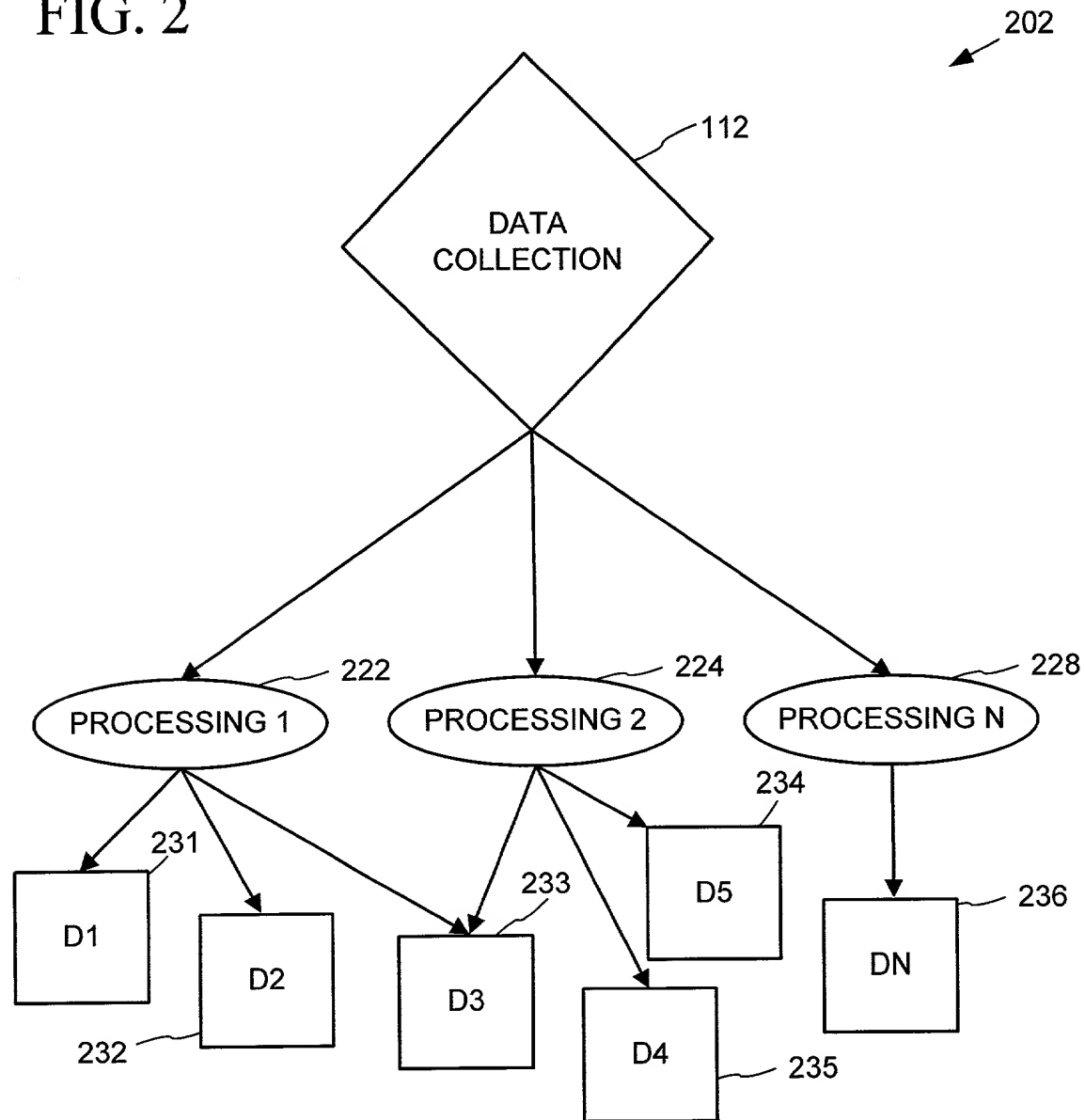


FIG. 3

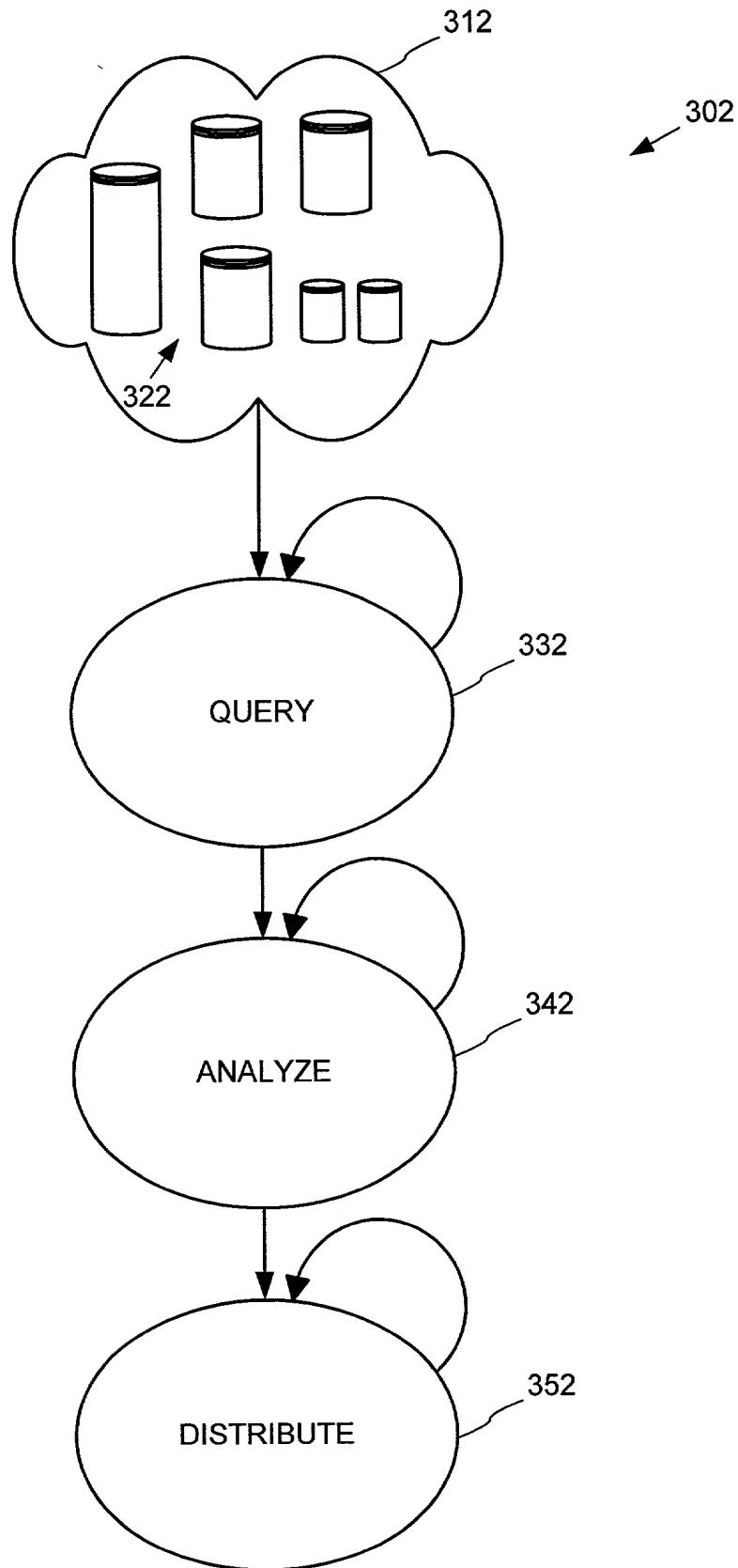


FIG. 4

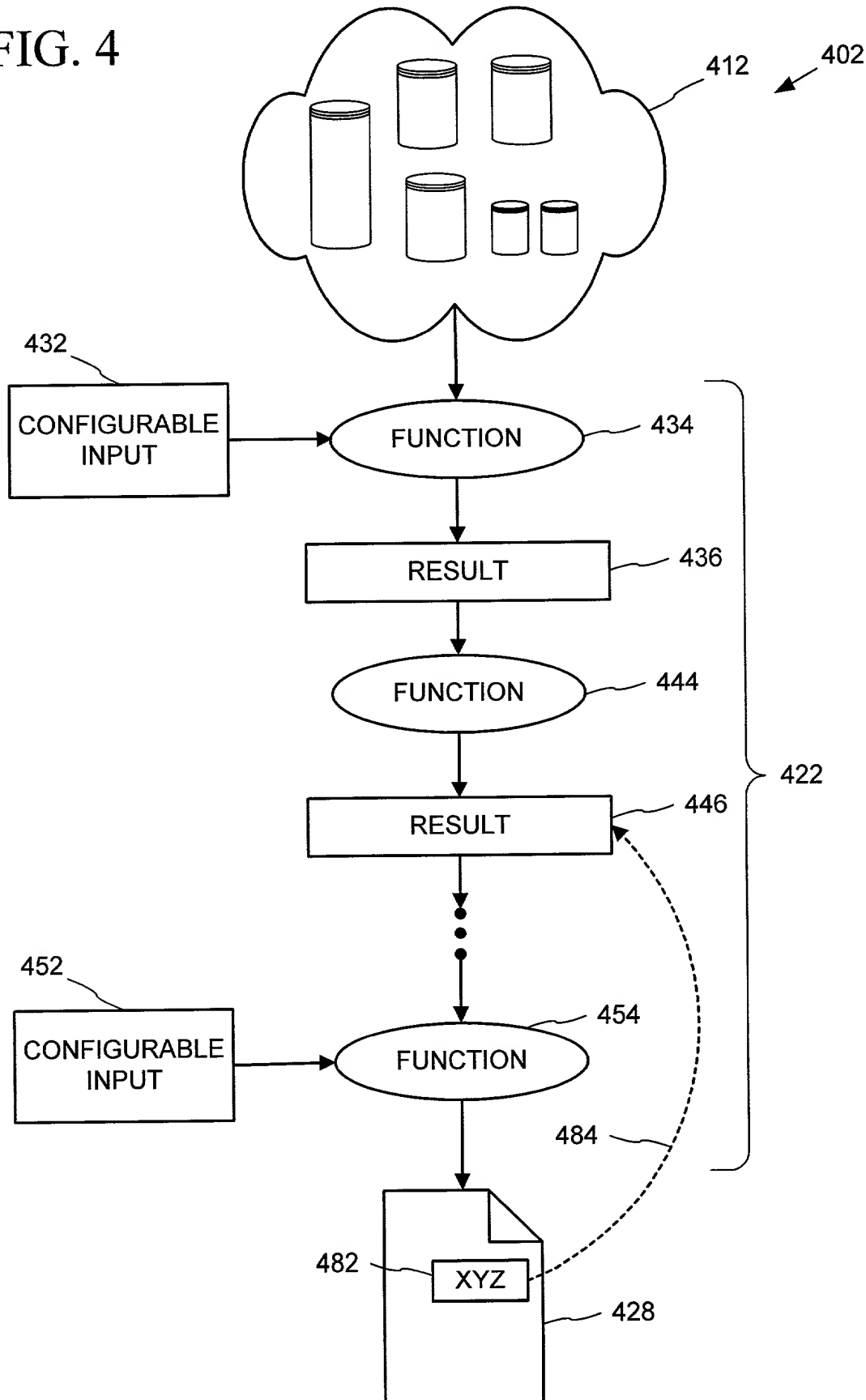


FIG. 5

502

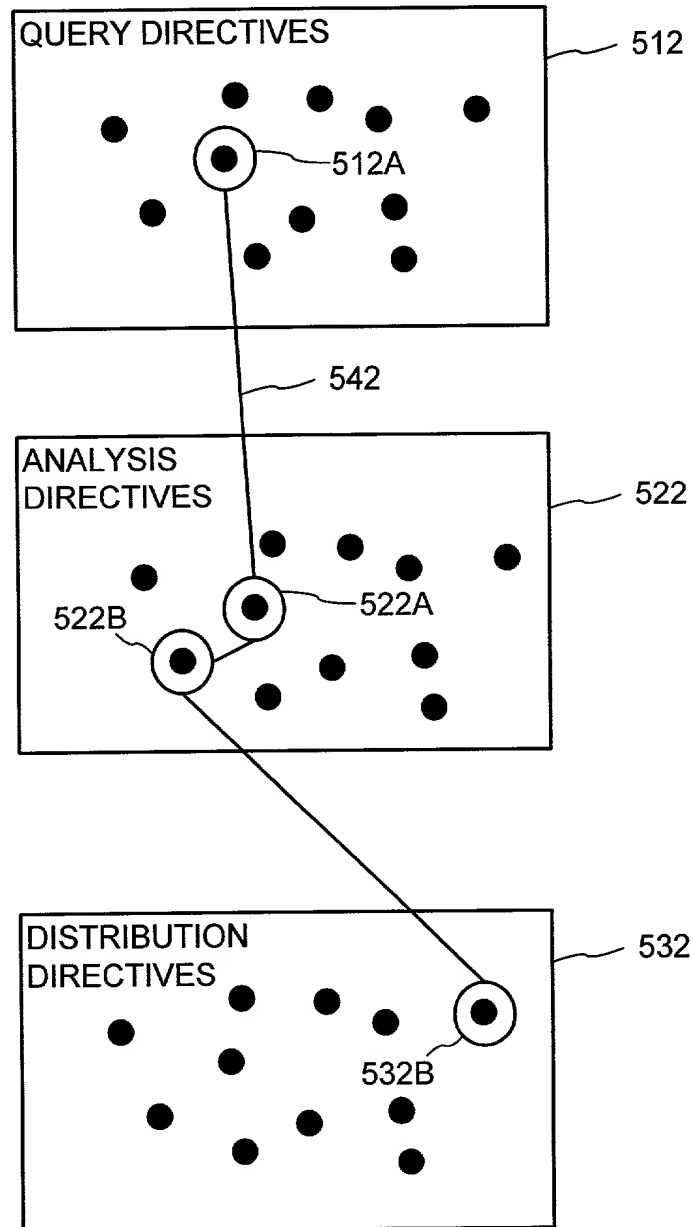


FIG. 6

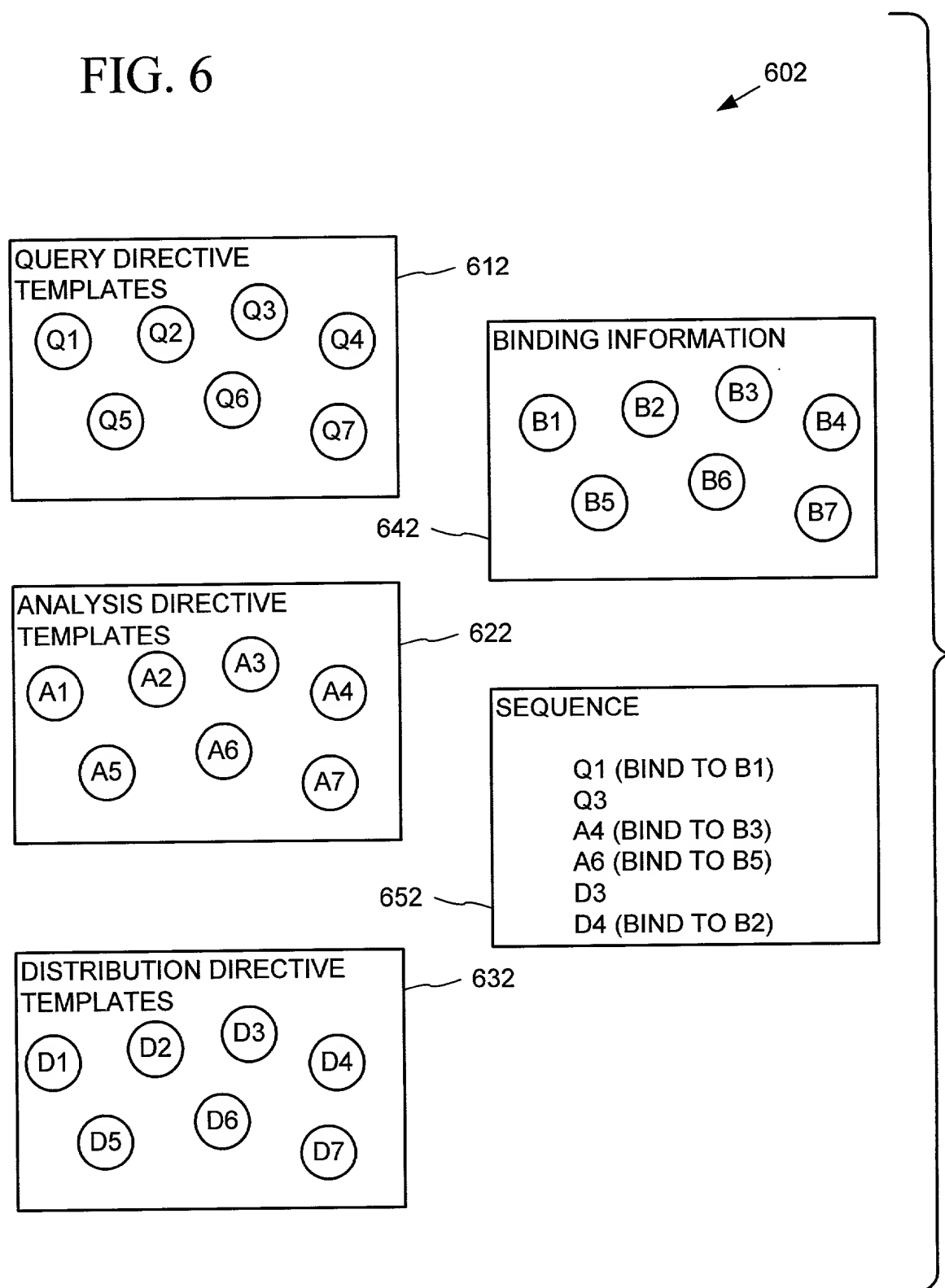


FIG. 7

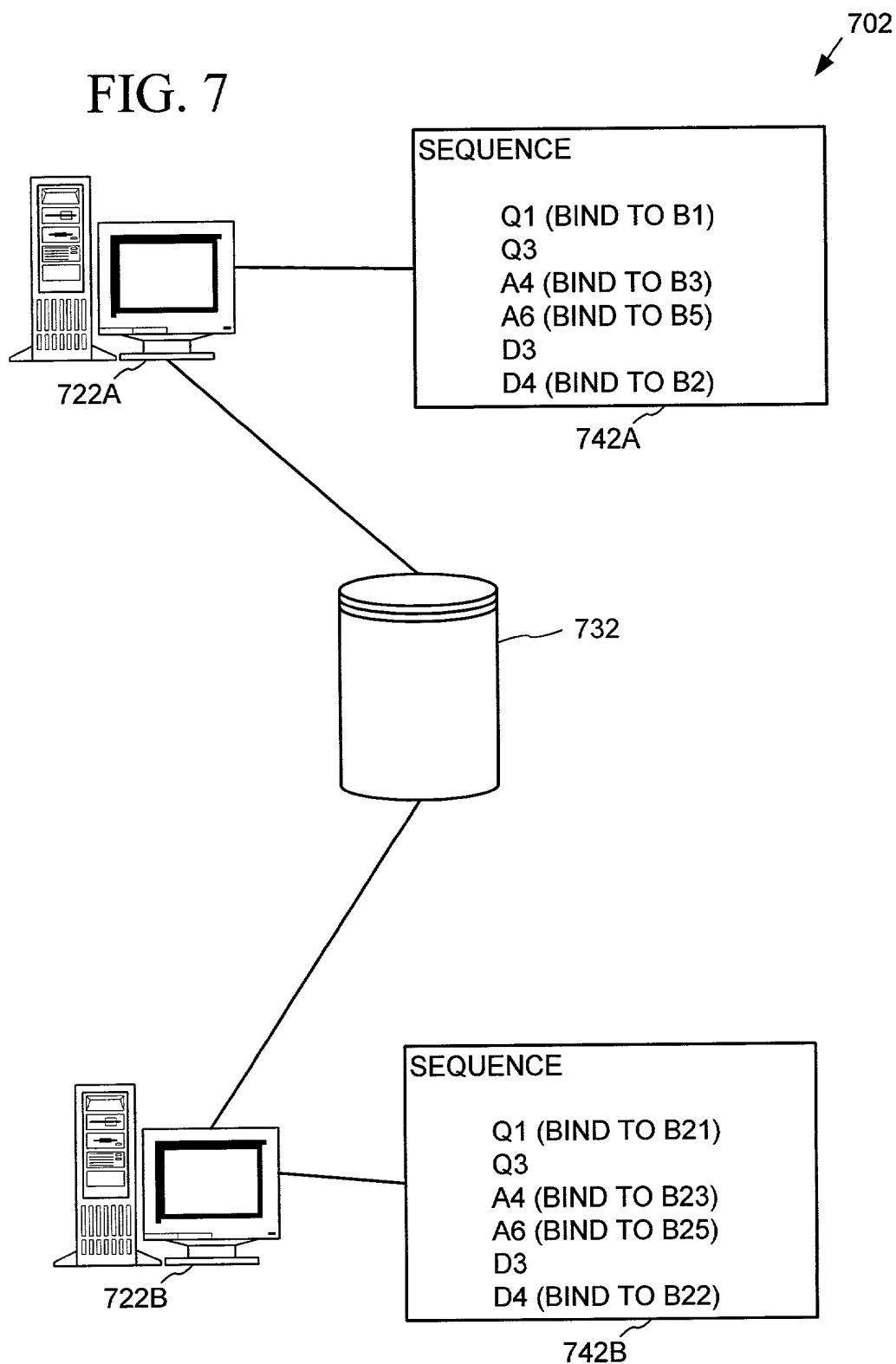
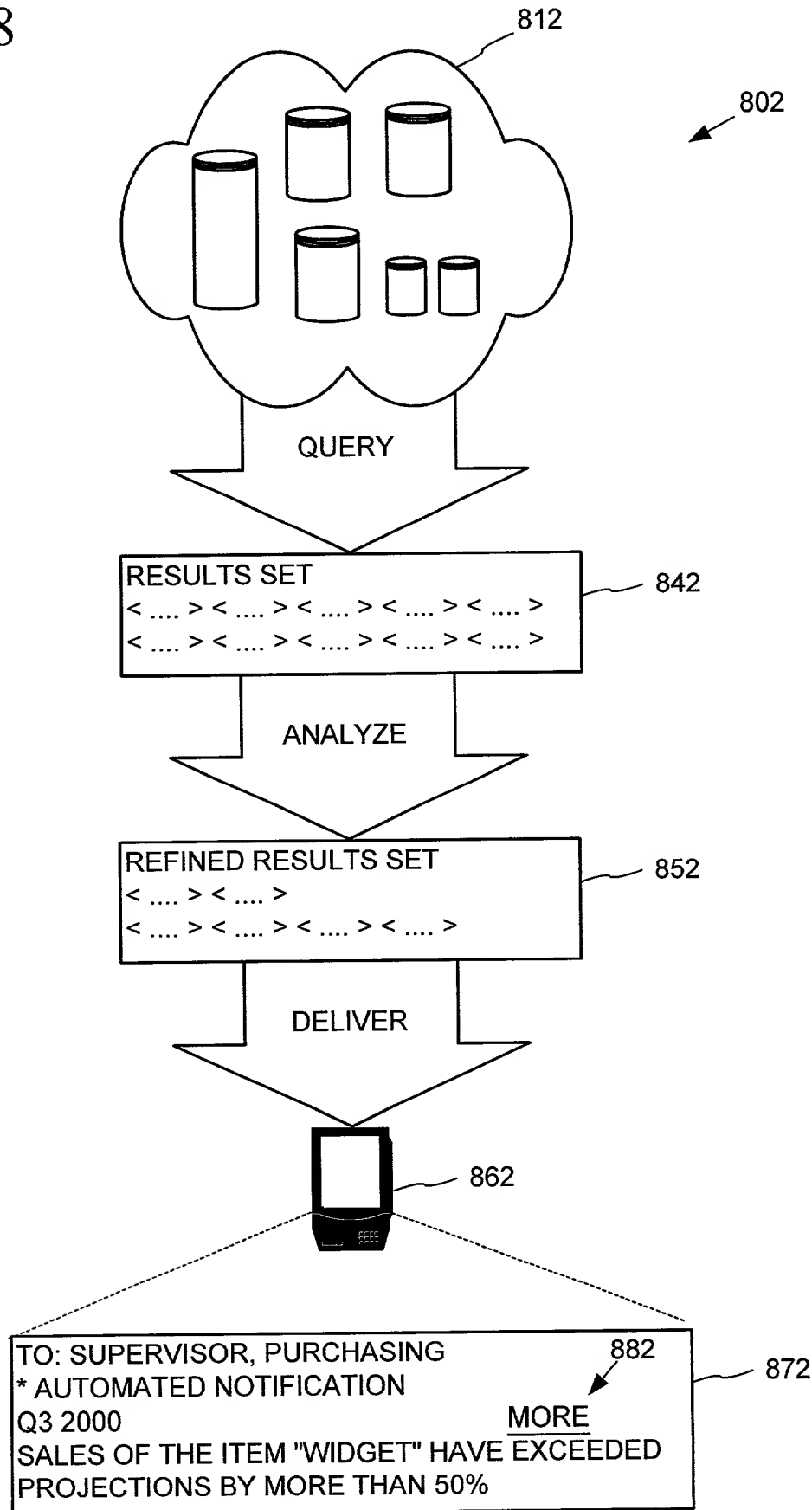


FIG. 8



TO: SUPERVISOR, PURCHASING  
\* AUTOMATED NOTIFICATION  
Q3 2000  
SALES OF THE ITEM "WIDGET" HAVE EXCEEDED  
PROJECTIONS BY MORE THAN 50%



FIG. 9

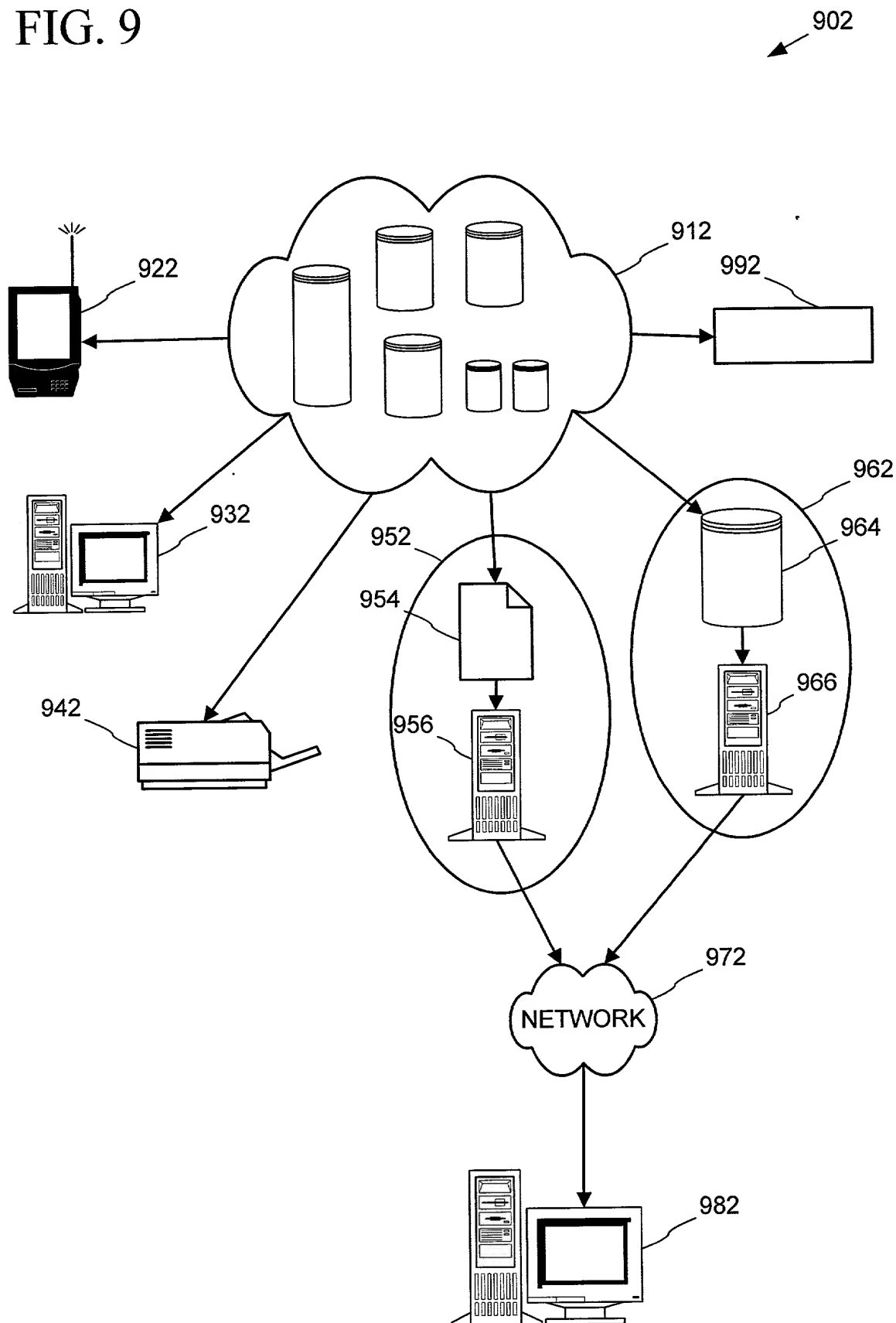


FIG. 10

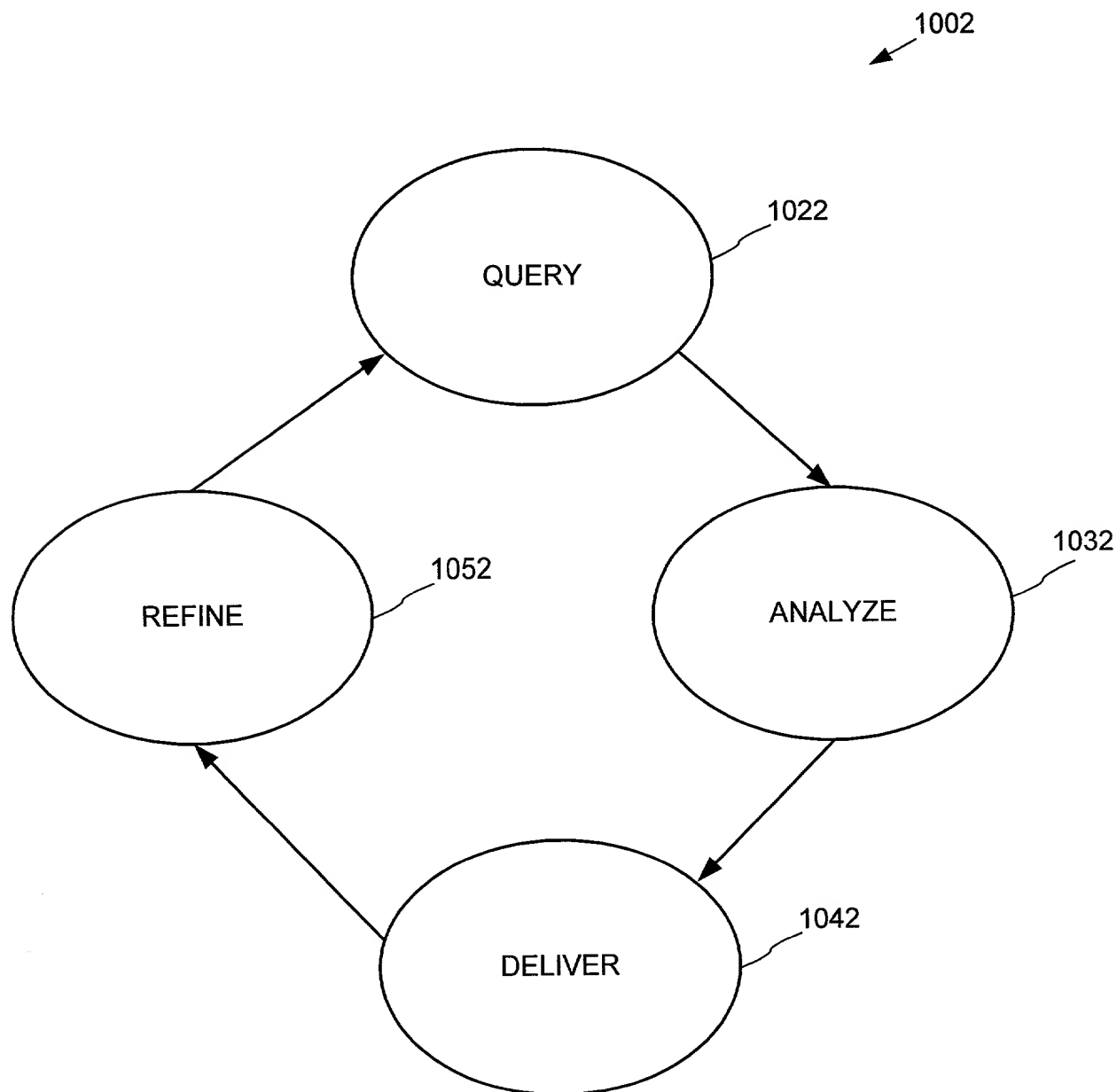


FIG. 11

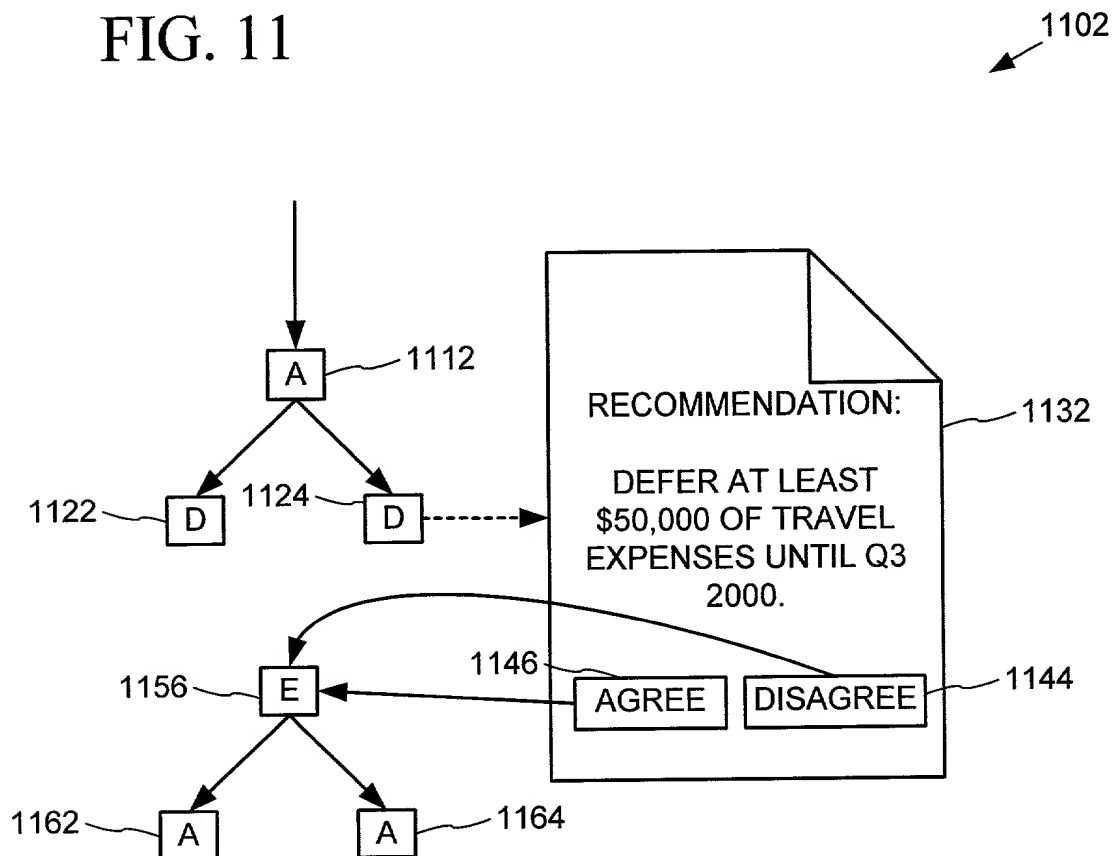


FIG. 12A

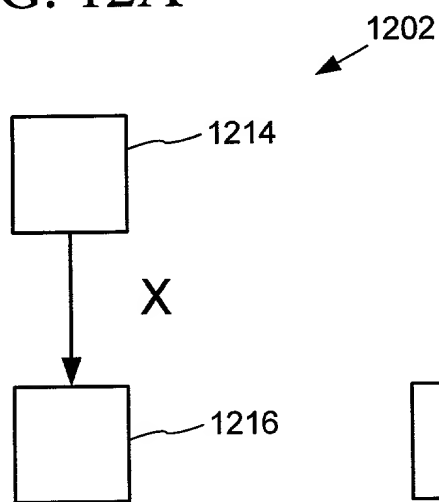


FIG. 12B

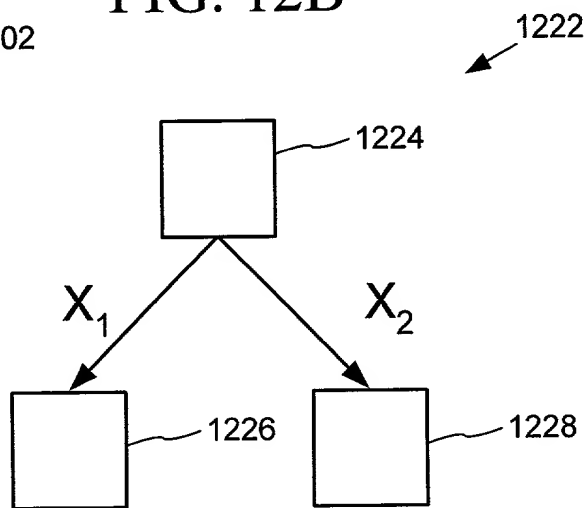


FIG. 12C

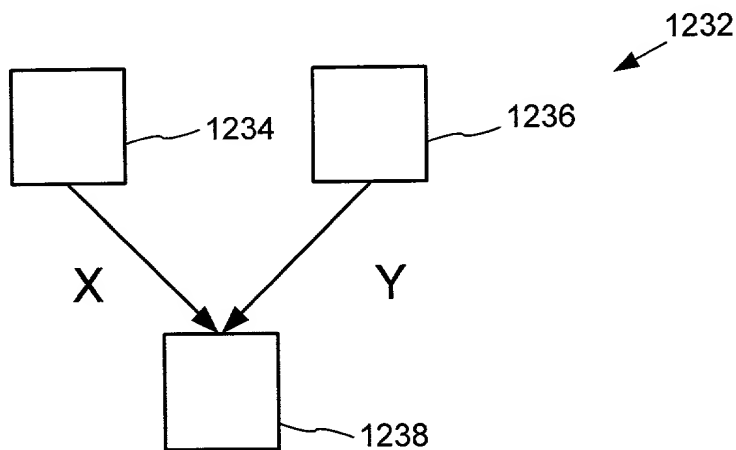


FIG. 12D

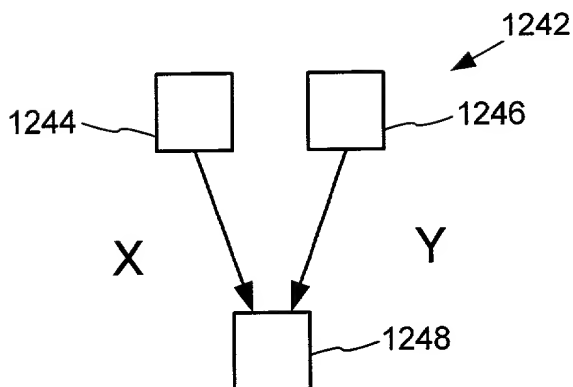


FIG. 12E

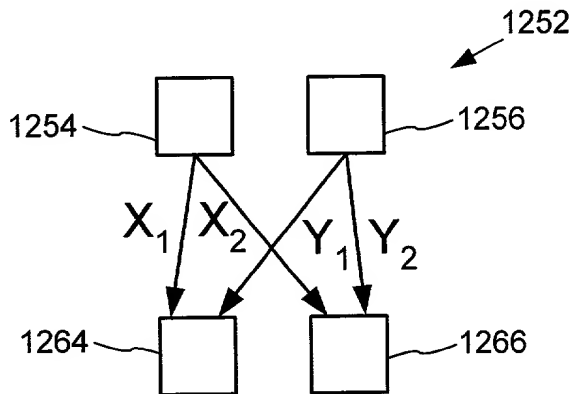


FIG. 13

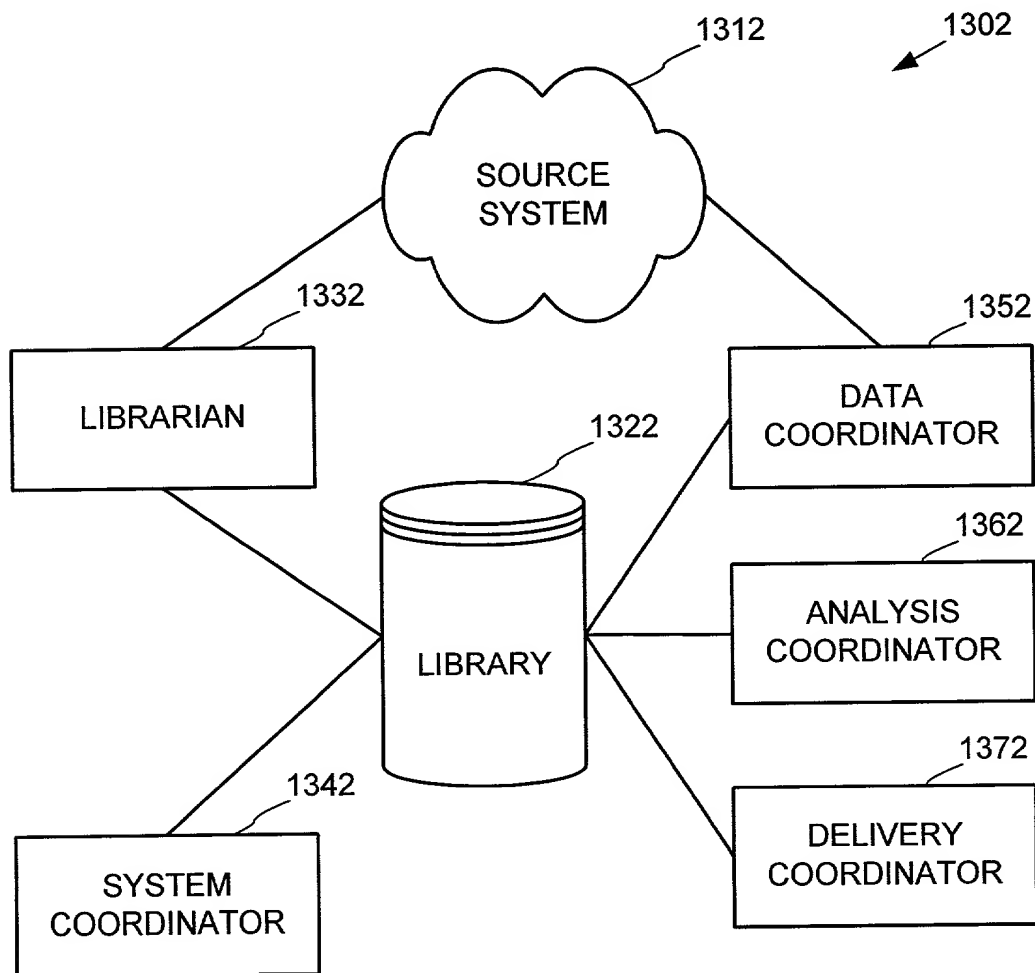


FIG. 14A

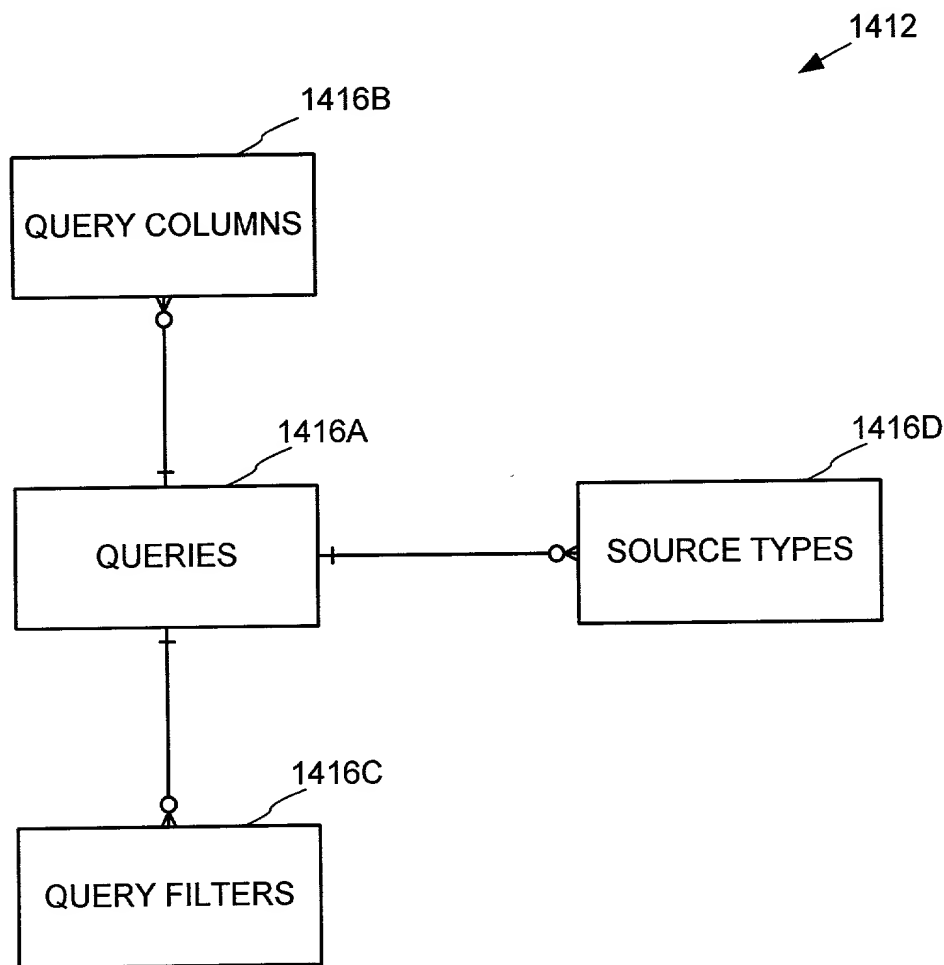


FIG. 14B

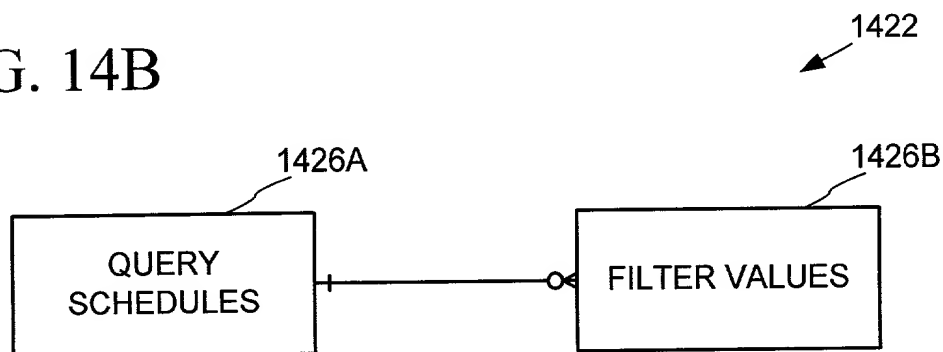


FIG. 14C

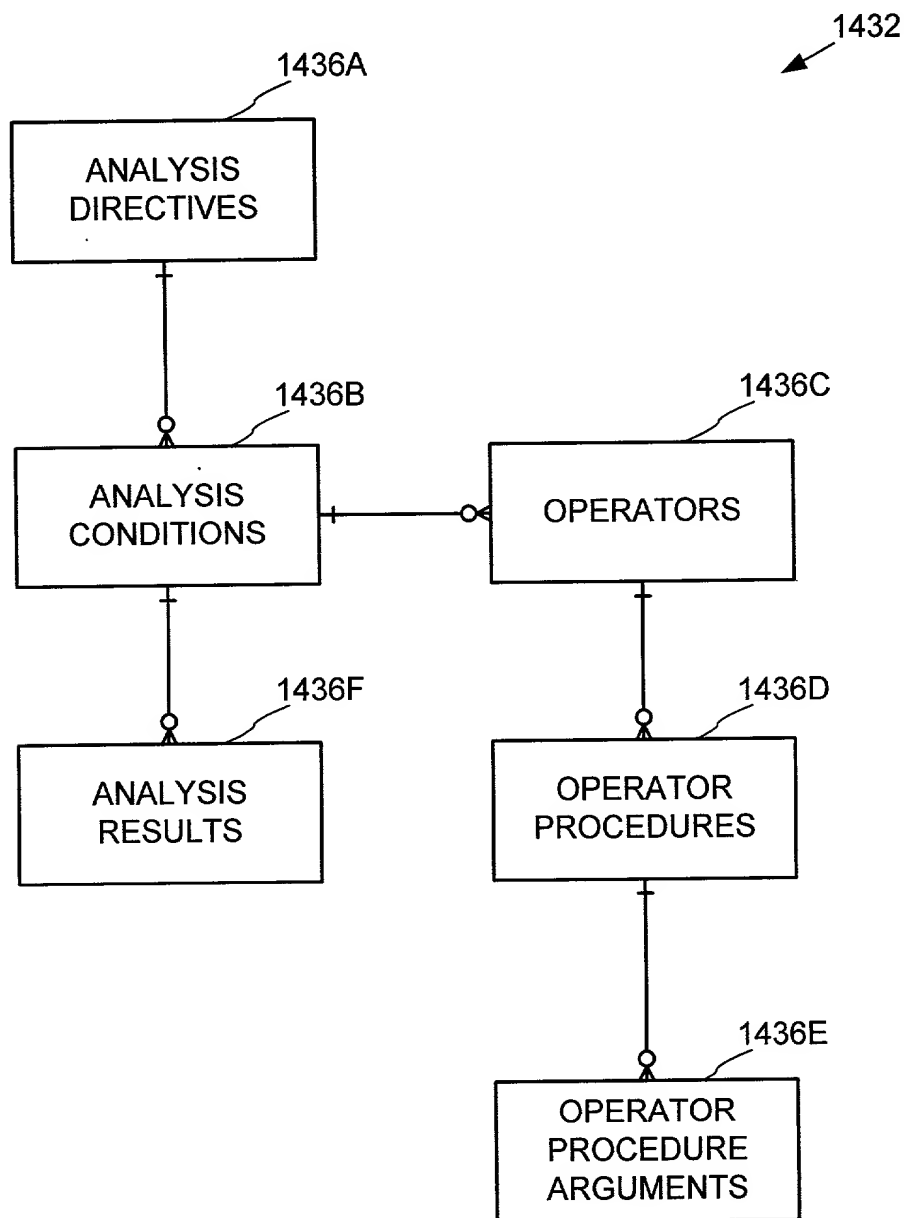


FIG. 14D

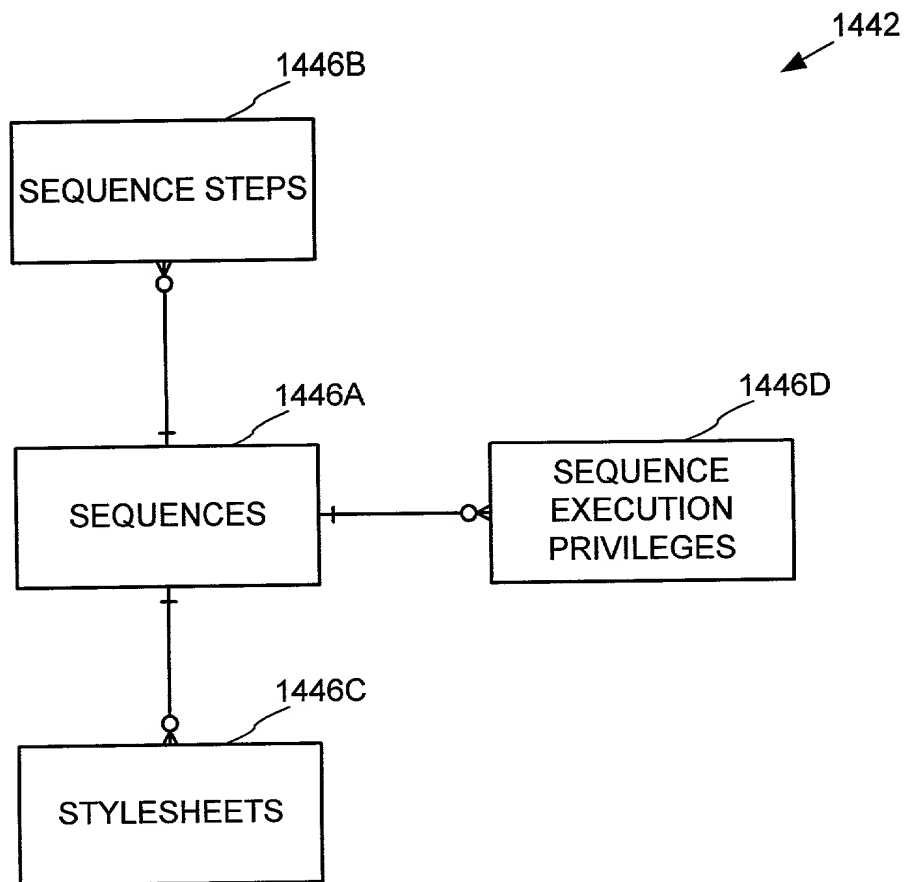




FIG. 14E

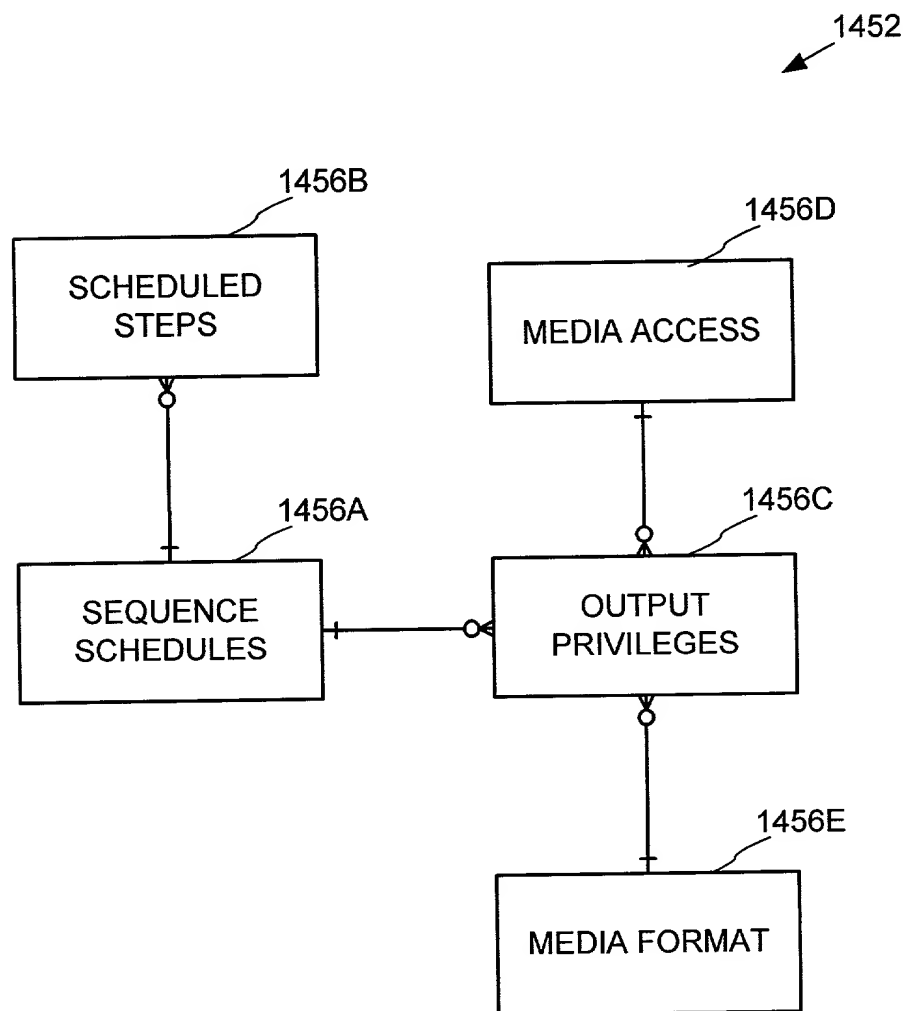


FIG. 14F

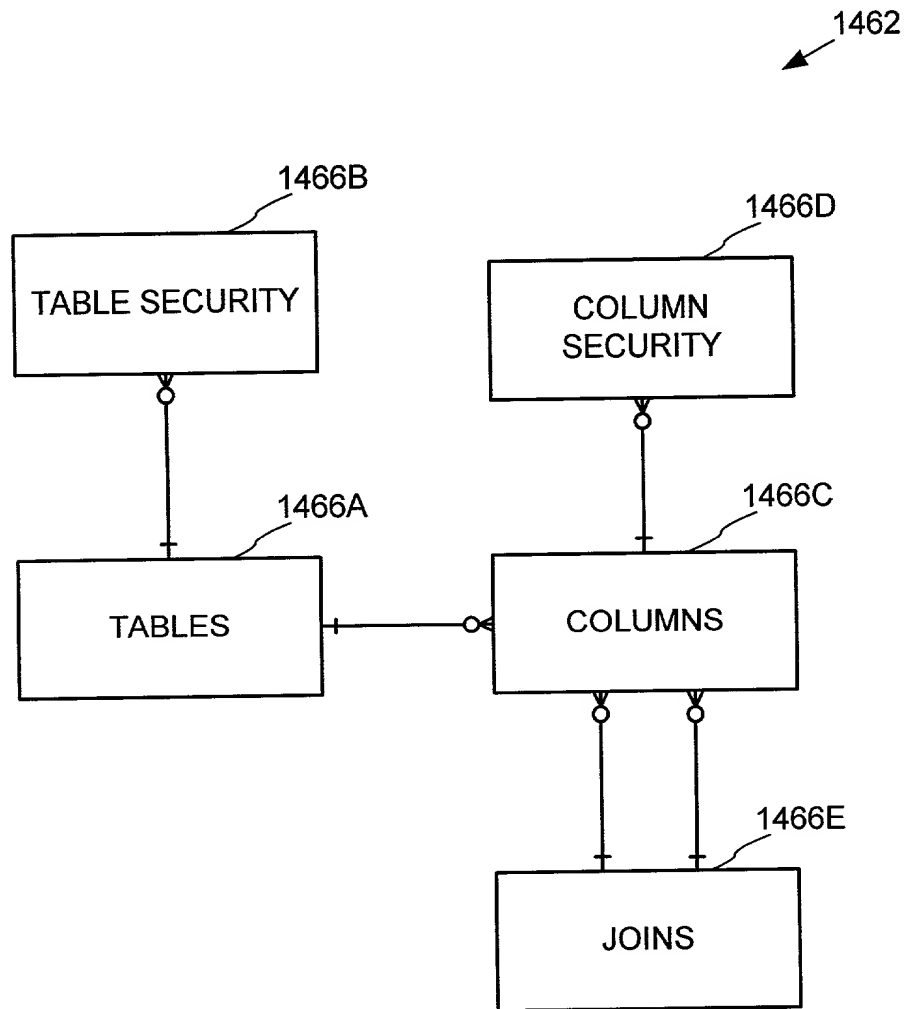


FIG. 14G

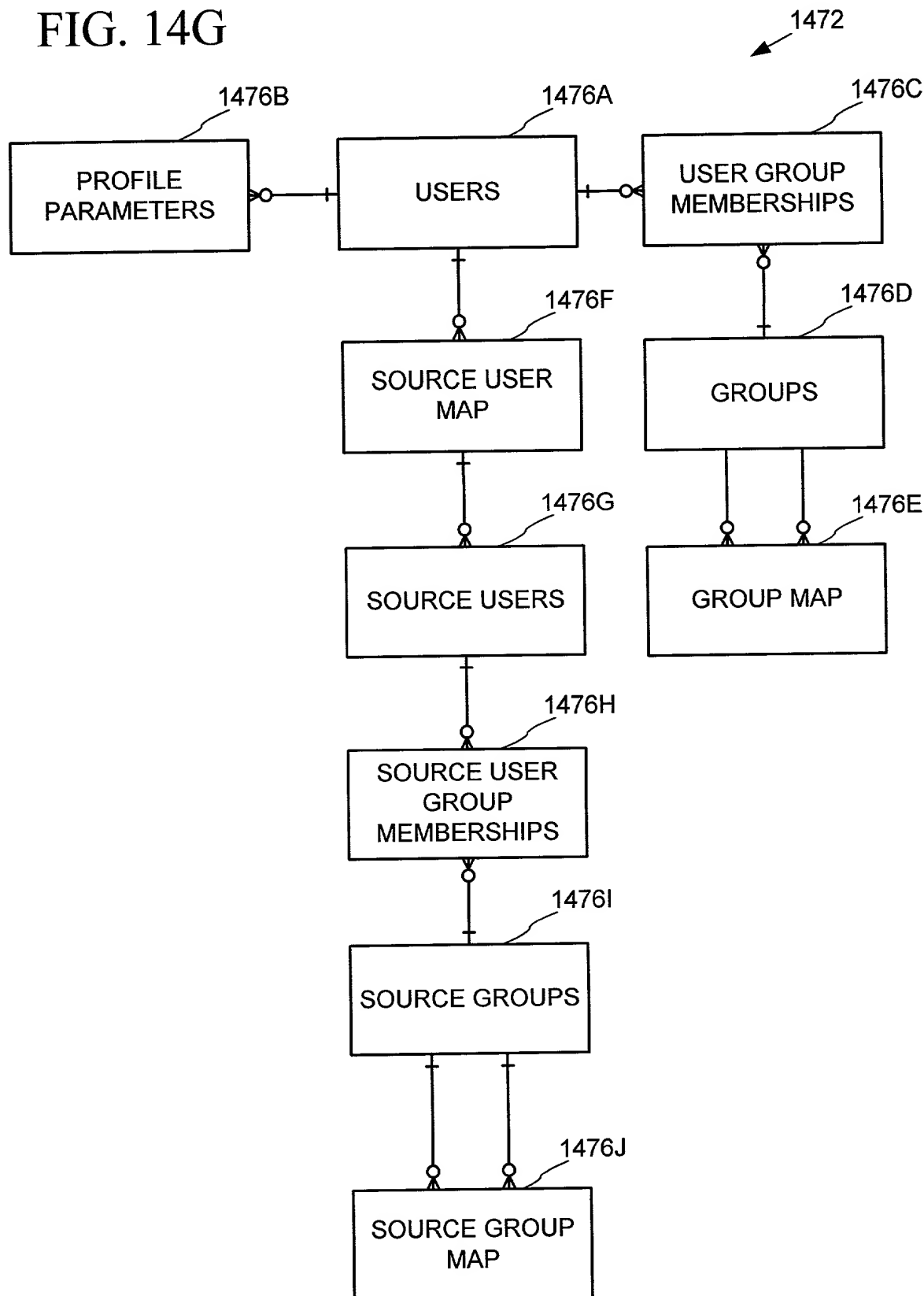
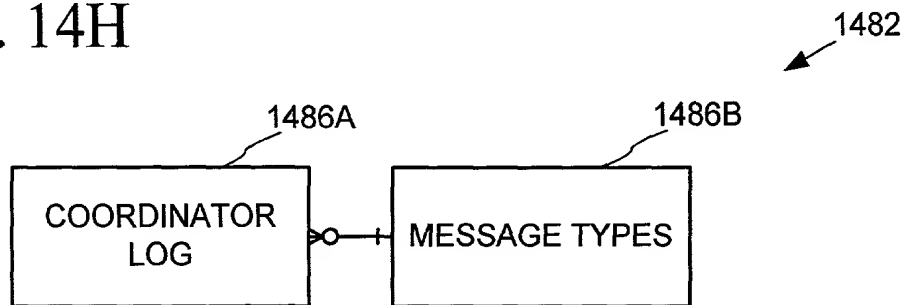


FIG. 14H



202010" EOT52550

FIG. 15A

1502

QUERY DIRECTIVES					
NAME	DESC	SOURCE	USER	STATUS	OPTION
NEW	NEW	SYSTEM A ▼	NB	AVAILABLE ▼	ADD
CC1	COST CENTER	SYSTEM A	EH	AVAILABLE ▼	MOD
AR-PTD	PERIOD TO DATE	SYSTEM B	LS	AVAILABLE ▼	MOD
REV	PTD REVENUE	SYSTEM B	LS	AVAILABLE ▼	MOD
FIN	FINANCIALS	SYSTEM B	LS	AVAILABLE ▼	MOD
SALES	SALES BY DEPT	SYSTEM B	LS	AVAILABLE ▼	MOD

FIG. 15B

1504

QUERY TABLE & COLUMNS				
QUERY:NEW QUERY				
TABLE	COLUMN	GB?	ST	XML TAG ROR? SORT
SELECT COLUMN				
ACCOUNTING_DATE_D ▼				
AR_RCT_REV_RESN_D ▲				
AR_RECPT_STATUS_D				
AR_REVENUE_F				
AR_SCH_PMT_DTL_F				
AR_SHIP_VIA_D				
AR_SOLD_TO_CUST_D				
ASSET_BOOK_D				
ASSET_EMPLOYEE_D				
ASSET_INVENTORY_F				
ASSET_TYPE_D				
AUTHORIZER_D ▼				

202070" EOT52660

FIG. 15C

1506

QUERY:NEW QUERY		QUERY TABLE & COLUMNS				
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
DEPARTMENT_D	<div>DEPARTMENT</div> <div>DEPARTMENT_DESC</div> <div>DEPARTMENT_KEY</div>	<div>Y</div>	<div></div>		<div>N</div>	
<div>ADD</div>						

FIG. 15D

QUERY TABLE & COLUMNS						
QUERY:NEW QUERY						
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
DEPARTMENT_D	DEPARTMENT_DESC	Y		DEPARTMENT	N	1

ADD COLUMN

DONE

1508



FIG. 15E

1510

QUERY TABLE & COLUMNS							
QUERY:NEW QUERY	TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
	DEPARTMENT_D	DEPARTMENT_DESC	Y		DEPARTMENT	N	1
	INC_STMT_LINES_D	LINE_NAME	Y		LINE_NAME	N	
	INCOME_STMT_A	PTD_ACTUAL	N	SUM	PTD_ACTUAL	N	
	INCOME_STMT_A	PTD_BUDGET	N	SUM	PTD_BUDGET	N	
	INCOME_STMT_A	PTD_VARIANCE	N	SUM	PTD_VARIANCE	N	
<div>ADD COLUMN</div> <div>DONE</div>							

FIG. 15F

1512

QUERY FILTERS					
QUERY:NEW QUERY					
TABLE	COLUMN	FILTER OPERATOR	ROR?	REF TABLE	REF COLUMN
BUDGET_D	BUDGET	IN	NO		REF TABLE
<div>ADD</div>					

202010 " 00T92510

FIG. 15G

1514

QUERY:NEW QUERY					QUERY FILTERS		
TABLE	COLUMN	FILTER OPERATOR	ROR?	REF TABLE	REF COLUMN		
BUDGET_D	BUDGET	IN	N				
PERIOD_D	PERIOD	=	N				
DEPARTMENT_D	DEPARTMENT	=	N	DEPARTMENT_D	DEPARTMENT_KEY		
<div>ADD FILTER</div> <div>FINISH</div>							

FIG. 15H

ANALYSIS SUBSEQUENCE				
YOU ARE TYING THIS ANALYSIS SUBSEQUENCE TO THE QUERY DIRECTIVE: NEW QUERY				
ANALYSIS SUBS NAME	USER NAME	RESULTS TYPE	LAST RUN DATE	OPTIONS
<input type="text" value="INCOME STMT ANALYSIS"/>	NB	SHOW		<input type="button" value="ADD"/>

1516

202070" E0T52660

FIG. 15I

1518

ANALYSIS SUBSEQUENCE									
NAME : INCOME STATMT ANALYSIS									
COND'N	CON'DN	XML TAG NAME	XML TDT	XML TDF	OPERATOR	TV	OPT.		
TYPE	SEQ.								
AND		DEPARTMENT ▼			NOOP ▼			ADD	
ADDITIONS COMPLETED									

FIG. 15J

1520

ANALYSIS SUBSEQUENCE						
NAME : INCOME STATMT ANALYSIS						
COND'N	CON'DN	XML TAG NAME	XML TDT	XML TDF	OPERATOR	TV
TYPE	SEQ.					OPT.
AND		DEPARTMENT			NOOP	
		ONS COMPLETED				
		PTD_ACTUAL				
		PTD_BUDGET				
		PTD_VARIANCE				

FIG. 15K

1522

ANALYSIS SUBSEQUENCE						
NAME : INCOME STATMT ANALYSIS						
COND'N	CON'DN	XML TAG NAME	XML TDT	XML TDF	OPERATOR	TV
TYPE	SEQ.					OPT.
AND	1	PTD_ACTUAL			NOOP	
<div>ADDITIONS COMPLETED</div> <div><div>TOP PCT</div><div>BOTTOM</div><div>BOTTOM PCT</div><div>&gt; AVG</div><div>&lt; AVG</div><div>&lt; AVG PCT</div><div>&gt; AVG PCT</div><div>AVG WITHIN</div><div>AVG OUT</div><div>AVG WITHING PCT</div><div>AVG OUT PCT</div></div> <div>ADD</div>						

2026070" EOT32550

FIG. 15L

1524

ANALYSIS SUBSEQUENCE									
NAME : INCOME STATMT ANALYSIS									
COND'N	CON'DN	XML TAG NAME	XML TDT	XML TDF	OPERATOR	TV	OPT		
TYPE	SEQ								
AND		DEPARTMENT	▼		NOOP	▼		ADD	
AND	1	PTD_ACTUAL	▼		<>	▼	0	MOD	DEL
AND	2	PTD_VARIANCE	▼		>	▼	300000	MOD	DEL
AND	3	PTD_VARIANCE	▼		TOP PCT	▼	10	MOD	DEL
ADDITIONS COMPLETED									



2026070 "EOT52550

FIG. 15M

1526

SEQUENCES				
ADD, EDIT OR DELETE SEQUENCES				
ID	NAME	DESCRIPTION	STATUS	USER OPT
	INCOME STAT'T ANALYSIS	INCOME STAT'T ANALYSIS	AVAIL ▼	NB ADD
24	FINANCIAL STATEMENT	FINANCIAL STATEMENT	AVAIL ▼	LS MOD
25	FSV	FSV	AVAIL ▼	NB MOD
26	COST CENTER SCORING 1	COST CENTER SCORING	DISAB ▼	LS MOD
27	COST CENTER SCORING 2	CSS PTD-VARIANCE	AVAIL ▼	LS MOD

FIG. 15N

ADD OR EDIT SEQUENCE STEP INFORMATION			
SEQUENCE NAME: INCOME STATEMENT ANALYSIS			
ID	STEP	DIRECTIVE TYPE	DIRECTIVE ID      LUB      LUD
28	1	QUERY DIRECTIVE	<div> <div>QUERY FOR STEP ▼</div> <div> <div>ADD</div> <div>DEFINE</div> </div> </div> <div>           AR - PTD REVENUE BY DEPARTMENT            VARIANCE AND VARIANCE PERCENT            NEW QUERY            NEIL'S QUERY            NEIL'S OTHER QUERY            LARRY'S QUERY            YET ANOTHER LARRY QUERY         </div>

FIG. 150

ADD OR EDIT SEQUENCE STEP INFORMATION					
SEQUENCE NAME: INCOME STATEMENT ANALYSIS					
ID	STEP	DIRECTIVE TYPE	DIRECTIVE ID	LUB	LUD
28	1	QUERY DIRECTIVE	NEW QUERY ▼	12/15/00	MOD DEFINE
28	2	ANALYSIS DIRECTIVE ▼	DIRECTIVE		
		QUERY DIRECTIVE ANALYSIS DIRECTIVE EVENT DIRECTIVE DISTRIBUTION DIRECTIVE			

FIG. 15P

1534

ADD OR EDIT SEQUENCE STEP INFORMATION				
SEQUENCE NAME: INCOME STATEMENT ANALYSIS				
ID	ST	DIRECTIVE TYPE	DIRECTIVE ID	LUB LUD
28	1	QUERY DIR	NEW QUERY ▼	12/15/00 MOD DEFINE
28	2	ANALYSIS DIR	INCOME STMT ANALYSIS ▼	NB 12/15/00 MOD DEFINE
28	3	DISTRIBUTION DIRECTIVE ▼		DIRECTIVE

FIG. 15Q

SEQUENCE NAME: INCOME STATEMENT ANALYSIS		DISTRIBUTION FORMAT	
FORMAT			
HTML	EXCEL	HTML	WAP
CREATE			

1536

20040707 EOT 5255D

FIG. 15R

1538

<u>HOME</u>	<b>SCHEDULE SEQUENCES</b>			
<u>INSTRUCTIONS</u>				
<u>SEQUENCES AVAILABLE</u>	<b>SEQUENCE NAME</b>	<b>USER</b>	<b>SCHEDULE DESC</b>	<b>FREQ</b>
<u>ADMIN</u>				<b>PRIORITY</b>
<u>SYS SETTINGS</u>	<div>INCOME STAT'T ANALYSIS ▼</div>	<div>LS</div>	<div>ISA FOR DEC '00</div>	<div>IMMEDIATE ▼</div>
<u>USERS</u>	<div>ADD</div>			
<u>LOGS</u>	SELECT SEQUENCE TO VIEW			
<u>APPL SETTINGS</u>	<div>COST CENTER SCORING - PTD VARIANCE ▼</div>			
<u>MEDIA SETT'S</u>	<div>VIEW</div>			

FIG. 15S

SCHEDULE SEQUENCES				
SEQUENCE NAME	USER	SCHEDULE DESC	FREQ	PRIORITY
INCOME STAT'T ANALYSIS ▼	LS	ISA FOR DEC '00	IMMEDIATE ▼	ADD
SELECT SEQUENCE TO VIEW				
<div> COST CENTER SCORING - PTD VARIANCE ▼ </div>				
<div> IMMEDIATE ONCE EXTRACT DAILY WEEKLY MONTHLY </div>				

1540

FIG. 15T

ADD SEQUENCE TO SCHEDULE

SELECT THE DAYS YOU WISH THE SEQUENCE TO RUN

☐ SUNDAY
☐ MONDAY
☐ TUESDAY
☐ WED
☐ THURS
☐ FRIDAY
☐ SATURDAY

START AT

8

▼

:

30

▼

PM

▼

NEXT START DATE

2000

▼

DEC

▼

15

▼

SUBMIT



20000707 EOT 52550

FIG. 15U

1544

SCHEDULE ENTRY	
SELECT SOURCE INFORMATION	
SEQUENCE: INCOME STATEMENT ANALYSIS	
STEP: 1	
QUERY: NEW QUERY	
SOURCE NAME	DV <input type="button" value="▼"/>
	DV
	PART
<input type="button" value="CONTINUE"/>	

FIG. 15V

SCHEDULE ENTRY	
SELECT SOURCE INFORMATION	
SEQUENCE: INCOME STATEMENT ANALYSIS	
STEP: 1	
QUERY: NEW QUERY	
SOURCE NAME	PART
SOURCE SET	OAS ▼
CONTINUE	

1546

202070" 80752660

FIG. 15W

SEQUENCE: INCOME STATEMENT ANALYSIS

SCHEDULE: INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

SEQUENCE STEP: 1

NEW QUERY

TABLE NAME	COL NAME	OP	FILTER VALUE	
BUDGET_D	BUDGET	IN	<div>ACTUAL</div>	<div>MOD</div>
			<div>CORPORATE 1997</div>	<div>MOD</div>
			<div></div>	<div>ADD</div>
PERIOD_D	PERIOD	=	<div>DEC-2000</div>	<div>MOD</div>

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

FIG. 15X

1550

GROUPS

SEQUENCE OUTPUT PRIVILEGES

SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

USER	ACCESS	FORMAT	ST	CS	RESULT TAG	RESULT VALUE	OPT
NEILB ▼	EMAIL_DATA ▼	HTML ▼	▼				ADD
NEILB LARRYS ERICH MARC SALES MARKET HQ							

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD,  
MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

20020307 ECT 92560

FIG. 15Y

1552

GROUPS

SEQUENCE OUTPUT PRIVILEGES

SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

USER	ACCESS	FORMAT	ST	CS	RESULT TAG	RESULT VALUE	OPT
NEILB ▼	EMAIL_DATA ▼ <div>EMAIL_DATA EMAIL_URL WEB DESK_ALERT</div>	HTML ▼	▼				ADD

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD,  
MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

FIG. 15Z

1554

SEQUENCE OUTPUT PRIVILEGES

GROUPS

SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

USER	ACCESS	FORMAT	ST	CSS RESULT TAG	RESULT VALUE	OPT
NEILB	EMAIL_DATA	HTML		3		ADD
<div>1 2</div> <div>HTML WAP XML EXCEL PALM VII PALM MAIL</div>						

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD,  
MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

20020701 EOT 52650

FIG. 15AA

1556

SEQUENCE OUTPUT PRIVILEGES

SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

CONDITION SUBSEQUENCE	RESULT TAG	RESULT VALUES
<div>SUBSEQUENCE 2 ▼</div>	<div><div>SELECT DESIRED TAG ▼</div><div>SELECT DESIRED TAG NO RESULT TAG NEEDED DEPARTMENT LINE_NAME PTD_ACTUAL PTD_BUDGET PTD_VARIANCE</div></div>	<div></div>

FINISHED

FIG. 15BB

SEQUENCE OUTPUT PRIVILEGES

SEQUENCED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

SELECT

<VAL>

☐

MAINTENANCE<NAL>

<VAL>

☐

MANUFACTURING<NAL>

<VAL>

☐

MANUFACTURING PLANT 1<NAL>

<VAL>

☐

MANUFACTURING PLANT 2<NAL>

<VAL>

☐

MARKETING<NAL>

<VAL>

☒

NON-PRODUCT SALES<NAL>

<VAL>

☐

ORDER ENTRY<NAL>

<VAL>

☐

PARENT TOTAL<NAL>

<VAL>

☐

PAYROLL<NAL>

<VAL>

☒

PRODUCT SALES<NAL>

<VAL>

☐

</SPLIT VALUES>

FINISHED



FIG. 15CC

SEQUENCE OUTPUT PRIVILEGES		
SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000		
CONDITION SUBSEQUENCE	RESULT TAG	RESULT VALUES
SUBSEQUENCE 2 ▼	DEPARTMENT ▼	<div>&lt;?XML VERSION = "1.0"?&gt; &lt;SPLIT VALUES&gt; &lt;VAL&gt;COMMERCIAL SALES&lt;/VAL&gt; &lt;VAL? COMMUNICATIONS RESOURCES&lt;/VAL&gt; &lt;VAL&gt;EAST REGION SALES&lt;/VAL&gt; &lt;VAL&gt;FINANCES&lt;/VAL&gt; &lt;VAL&gt;GOVERNMENT SALES&lt;/VAL&gt; &lt;VAL&gt;NON-PRODUCT SALES&lt;/VAL&gt; &lt;VAL&gt;PRODUCT SALES&lt;/VAL&gt; &lt;/SPLIT VALUES&gt;</div>
FINISHED		

FIG. 15DD

1562

SEQUENCE OUTPUT PRIVILEGES

GROUPS

SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000

USER	ACCESS	FORMAT	ST	CSS RESULT TAG	RESULT VALUE	OPT
NEILB ▼	EMAIL_DATA ▼	HTML ▼	▼	3		ADD
NEILB	EMAIL_DATA ▼	HTML ▼	2 ▼	2 DEPARTME	<?XML VERSION =	MOD
						DEL

IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD,  
MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED

FINISHED

FIG. 15EE

SCHEDULE SEQUENCES			
SEQUENCE NAME	USER	SCHEDULE DESC	PRIORITY
TEST SEQUENCE FOR PRIV	LS		IMMEDIATE
SELECT SEQUENCE TO VIEW			
VIEW			
TEST SEQUENCE FOR PRIVS AND STEPS			
TEST SEQUENCE FOR PRIVS AND STEPS			
COST CENTER SCORING - PTD			
COST CENTER SCORING - PTD VARIANCE			
TEST VOAGE			
AR - PTD REVUENUE BY DEPARTMENT			
SOCCER SCORES			
BUDGET VARIANCE SCORING			
INCOME STATEMENT ANALYSIS			

FIG. 15FF

SCHEDULE SEQUENCES					
SEQUENCE NAME	USER	SCHEDULE DESC	FREQ	PRIORITY	
TEST SEQUENCE FOR PRIV	LS		IMMEDIATE	ADD	
SELECT SEQUENCE TO VIEW					
TEST SEQUENCE FOR PRIVS AND STEPS		VIEW			
SEQUENCE: INCOME STATEMENT ANALYSIS USER: NB					
ID	DESCRIPTION	STATUS	FREQ	START	OPTIONS
1815	INCOME STAT'T ANALYSIS DEC 2001	SCHED	DAILY	23-APR-2001 08:30 PM	MOD DEL PRIVILEGES



FIG. 16B

1630

SEQUENCE PROPERTIES

X

SEQUENCE NAME:  
DESCRIPTION:  
NOTES:

PART QUANTITY SHORTAGES

FINDS PART QUANTITY SHORTAGES

SAVE THIS ONE

SEQUENCE AUTHOR:  
SEQUENCE STATUS:

AUTHOR1

STATUS1

GLOBAL VARIABLES:

CAPTION:  
VALUE:

CONNECT STRING

JDBC:ORACLE.THIN@123.245.23.1:1521:CONNECT30

CAPTION:  
VALUE:

DATABASE USER NAME

RRIC1234

CAPTION:  
VALUE:

DATABASE PASSWORD

SEQUENCE

CAPTION:  
VALUE:

OWNERNAME

QRY\_ANALYSIS

CAPTION:  
VALUE:

CURRENT PERIOD

(1997-09) SEP-97

OK

CANCEL

ADD VARIABLE

FIG. 16C

1660

X

DIRECTIVE PROPERTIES

ID: 108 DIRECTIVE NAME: (ADFILTER) ADVANCED FILTER

ACTIVITY

INPUT

INPUT

INPUT

PARAM NAME (FILTER\_EXP) FILTER EXPRESSION

#REQUIRED\_QUANTITY# >200

DB3(52) RESULT DATA

OK

CANCEL

FIG. 17

1702

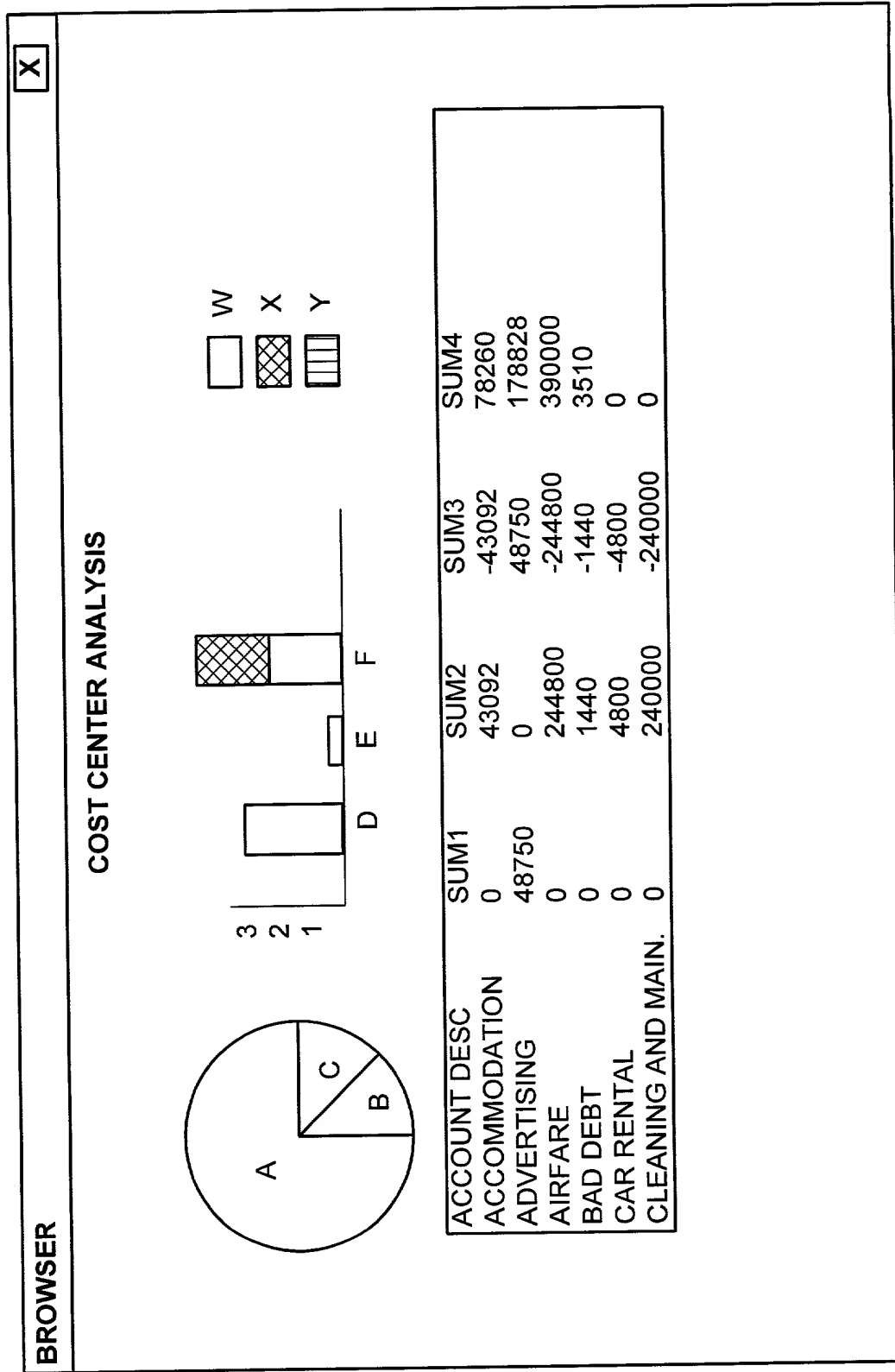




FIG. 18

1801

<DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="DB2" DIRECTIVE\_NAME="DATA  
DIRECTIVE" THREADING\_EFFECT="SPLIT" DIRECTIVE\_DESC="SQL  
DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN"  
DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"  
DIRECTIVE\_CATEGORY="DPA-MISC">  
    <DEPLOYMENT\_SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
    PORT="9070"/>  
    <IN\_PARAMETERS>  
        <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="SQL"  
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SQL"/>  
        <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="COLUMN TO SPLIT"  
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SPLIT\_COLUMN"/>  
        <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="CONNECTION  
STRING" PARAM\_DATA\_TYPE="STRING"  
PARAM\_NAME="CONNECTION\_STRING"/>  
        <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE USER  
NAME" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="USERNAME"/>  
        <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE  
PASSWORD" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PWD"/>  
    </IN\_PARAMETERS>  
    <OUT\_PARAMETERS>  
        <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT DATA"  
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET"/>  
        <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT  
METADATA" PARAM\_DATA\_TYPE="STRING"  
PARAM\_NAME="RESULTMETADATA"/>  
        <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="SPLIT VALUE"  
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SPLITVALUE"/>  
    </OUT\_PARAMETERS>  
</DF\_DIRECTIVE\_DEFINITION>

## FIG. 19A

1901

```
- <DF_DIRECTIVE_DEFINITION_LIST>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="SB1"
DIRECTIVE_NAME="SCHEDULER" DIRECTIVE_CATEGORY="DPA-MISC"
THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SCHEDULE DIRECTIVE"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1">
- <!-- CAN ADD A TYPE OR ICON NAME
-->
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="FREQUENCY"
PARAM_DATA_TYPE="STRING" PARAM_NAME="FREQUENCY" />
</IN_PARAMETERS>
<OUT_PARAMETERS />
<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB2" DIRECTIVE_NAME="DATA
DIRECTIVE" THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SQL
DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SQL"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SQL" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN TO SPLIT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLIT_COLUMN" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"
PARAM_DATA_TYPE="STRING" PARAM_NAME="CONNECTION_STRING" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="USERNAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PWD" />
</IN_PARAMETERS>
```

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## FIG. 19B

1902

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="SPLIT VALUE"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLITVALUE" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB1" DIRECTIVE_NAME="TOPX
FILTER" THREADING_EFFECT="STANDARD" DIRECTIVE_DESC="FILTER OUT TOP
X ROWS FROM RESULTSET" DIRECTIVE_VENDOR="DPA"
DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
  PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN POSITION FOR
TOPX" PARAM_DATA_TYPE="STRING" PARAM_NAME="TOPX_COLUMN" />
</IN_PARAMETERS>
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB2"
DIRECTIVE_NAME="APPENDER" DIRECTIVE_TYPE=""
THREADING_EFFECT="JOIN" DIRECTIVE_DESC="REJOIN SPLIT RESULTSETS"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
  PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
  PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
</IN_PARAMETERS>
```

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## FIG. 19C

1903

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="MB1" DIRECTIVE_NAME="EMAIL
RESULTS" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
DIRECTIVE_DESC="SIMPLE EMAIL DIRECTIVE" DIRECTIVE_VENDOR="DPA"
DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESS LIST"
PARAM_DATA_TYPE="STRING" PARAM_NAME="MAILADR" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT LINE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="MESSAGE DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="MESSAGE" />
</IN_PARAMETERS>
<OUT_PARAMETERS />
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="CRB1"
DIRECTIVE_NAME="CLEAR STORED RESULTS"
THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="OWNER ID"
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNERID" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTNAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTNAME" />
</IN_PARAMETERS>
<OUT_PARAMETERS />
</DF_DIRECTIVE_DEFINITION>
```

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## FIG. 19D

1904

- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="CRC1" DIRECTIVE\_NAME="CLEAR  
PUBLISHED PAGES" THREADING\_EFFECT="STANDARD" DIRECTIVE\_TYPE=""  
DIRECTIVE\_DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM  
REPOSITORY" DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"  
DIRECTIVE\_CATEGORY="DPA-MISC">  
  <DEPLOYMENT\_SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
  PORT="9070" />  
- <IN\_PARAMETERS>  
  <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="OWNERID"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="OWNERID" />  
  <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE NAME"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGENAME" />  
- </IN\_PARAMETERS>  
- <OUT\_PARAMETERS />  
- </DF\_DIRECTIVE\_DEFINITION>  
- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="SR1" DIRECTIVE\_NAME="SAVE  
RESULTS" THREADING\_EFFECT="STANDARD" DIRECTIVE\_TYPE=""  
DIRECTIVE\_DESC="SAVES RESULTS TO REPOSITORY"  
DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"  
DIRECTIVE\_CATEGORY="DPA-MISC">  
  <DEPLOYMENT\_SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
  PORT="9070" />  
- <IN\_PARAMETERS>  
  <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET OWNER"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="OWNER" />  
  <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET" />  
  <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET METADATA"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTMETADATA" />  
  <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET NAME"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTNAME" />  
- </IN\_PARAMETERS>  
- <OUT\_PARAMETERS>  
  <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULTSET ID"  
  PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSETID" />  
- </OUT\_PARAMETERS>  
- </DF\_DIRECTIVE\_DEFINITION>

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## FIG. 19E

1905

- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="CR2" DIRECTIVE\_NAME="PUBLISH  
PAGE" THREADING\_EFFECT="STANDARD" DIRECTIVE\_TYPE=""  
DIRECTIVE\_DESC="PUBLISHES PAGE & GRANTS SECURITY"  
DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"  
DIRECTIVE\_CATEGORY="DPA-MISC">  
    <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
    PORT="9070" />  
- <IN\_PARAMETERS>  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="GRANT SECURITY LIST"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SECDOC" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="METADATA FOR SECDOC"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SECMETA" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="GRANT SECURITY LIST"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SECCOLNAME" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE OWNER"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="OWNER" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE NAME"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGENAME" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE SLICE NAME"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGESLICENAME" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE DEFINITION"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGEDEFN" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P1" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P2" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P3" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P4" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P5" />  
    <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"  
    PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P6" />  
</IN\_PARAMETERS>

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## FIG. 19F

1906

- <OUT\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="PAGE ID"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGEID" />  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="PAGE OWNER"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="OWNER" />  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="PAGE NAME"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGENAME" />  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="PAGE SLICE NAME"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGESLICENAME" />  
</OUT\_PARAMETERS>  
</DF\_DIRECTIVE\_DEFINITION>  
- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="DB3" DIRECTIVE\_NAME="DATA  
DIRECTIVE" THREADING\_EFFECT="STANDARD" DIRECTIVE\_DESC="RETRIEVE  
DATA AND ASSEMBLE INTO RESULT SET" DIRECTIVE\_VENDOR="DPA"  
DIRECTIVE\_VERSION="1" DIRECTIVE\_CATEGORY="DPA-MISC">  
 <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
 PORT="9070" />  
- <IN\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="SQL"  
 PARAM\_DATA\_TYPE="PARAMETERIZED SQL STRING" PARAM\_NAME="SQL" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="CONNECTION STRING"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="CONNECTION\_STRING" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE USER NAME"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="USERNAME" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE PASSWORD"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PWD" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="P1"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P1" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="P2"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P2" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="P3"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P3" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="P4"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P4" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="P5"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P5" />  
</IN\_PARAMETERS>

## FIG. 19G

1907

```
- <OUT_PARAMETERS>
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
  <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>
</DF_DIRECTIVE_DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="MB2" DIRECTIVE_NAME="SMTP
EMAIL DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
DIRECTIVE_DESC="SEND PUBLISHED PAGES" DIRECTIVE_VENDOR="DPA"
DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
  <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />
- <IN_PARAMETERS>
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESSES"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ADDRDOC" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="METADATA FOR
ADDRDOC" PARAM_DATA_TYPE="STRING" PARAM_NAME="ADDRMETA" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL COLUMN NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ADDRCOLNAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL COLUMN NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="IDCOLNAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE OWNER"
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNER" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE INSTANCE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGEINST" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="MAIL FORMAT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="FORMAT" />
  <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SEND FROM MAIL
ADDRESS" PARAM_DATA_TYPE="STRING" PARAM_NAME="SENDFROM" />
</IN_PARAMETERS>
```



## FIG. 19H

1908

- <OUT\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="ERROR MESSAGES"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="ERROR\_MSG" />  
 </OUT\_PARAMETERS>  
 </DF\_DIRECTIVE\_DEFINITION>  
- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="ABFILTER"  
 DIRECTIVE\_NAME="ADVANCED FILTER" THREADING\_EFFECT="STANDARD"  
 DIRECTIVE\_TYPE="" DIRECTIVE\_DESC="FILTER RESULTS"  
 DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"  
 DIRECTIVE\_CATEGORY="DPA-MISC">  
 <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
 PORT="9070" />  
- <IN\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="FILTER EXPRESSION"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="FILTER\_EXP" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULTS METADATA"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="METADOC" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULTS"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSDOC" />  
 </IN\_PARAMETERS>  
- <OUT\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULTS METADATA"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="METADOC" />  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULTS"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSDOC" />  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="ROW COUNT"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="ROWCOUNT" />  
 </OUT\_PARAMETERS>  
 </DF\_DIRECTIVE\_DEFINITION>  
- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="TEXTMAILER"  
 DIRECTIVE\_NAME="TEXT EMAILER" THREADING\_EFFECT="STANDARD"  
 DIRECTIVE\_TYPE="" DIRECTIVE\_DESC="TEXT EMAILER"  
 DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"  
 DIRECTIVE\_CATEGORY="DPA-MISC">  
 <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"  
 PORT="9070" />

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FIG. 19I

1909

- <IN\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="SUBJECT EXPRESSION"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SUBJECT\_EXP" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="MESSAGE EXPRESSION"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="MESSAGE\_EXP" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="EMAIL ADDRESSES"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="EMAIL\_ADDRESSES" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="SEND FROM ADDRESS"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="FROM\_ADDRESS" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULTS METADATA"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="METADOC" />  
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULTS"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSDOC" />  
 </IN\_PARAMETERS>  
- <OUT\_PARAMETERS>  
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="ERROR MESSAGES"  
 PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="ERROR" />  
 </OUT\_PARAMETERS>  
 </DF\_DIRECTIVE\_DEFINITION>  
 </DF\_DIRECTIVE\_DEFINITION\_LIST>

## FIG. 20A

2001

```
- <RESULTS_DOC>
- <DP_QUERY_DEF VERSION="1">
  <DPA_IDENTIFIERS DATA_SET="NW" WH_OWNER_NAME="RROC" />
  <HINTS />
- <COLUMN_DEFS>
  <COLUMN_DEF COLUMN_SORT_ATTRIBUTE="NONE"
  COLUMN_TEXT="VENDOR_NAME" TABLE_ALIAS="VENDOR_D"
  COLUMN_NAME="VENDOR_NAME" COLUMN_ALIAS="VENDOR_NAME"
  COLUMN_SORT_ORDER="1" COLUMN_POSITION="1"
  COLUMN_TYPE="GROUP_BY" />
  <COLUMN_DEF COLUMN_SORT_ATTRIBUTE="NONE"
  COLUMN_TEXT="PERIOD_KEY" TABLE_ALIAS="AP_INV_DETAIL_F"
  COLUMN_NAME="PERIOD_KEY" COLUMN_ALIAS="PERIOD_KEY"
  COLUMN_SORT_ORDER="2" COLUMN_POSITION="2"
  COLUMN_TYPE="GROUP_BY" />
  <COLUMN_DEF COLUMN_SORT_ATTRIBUTE="DESC"
  COLUMN_TEXT="SUM(AP_INV_DETAIL_F.INVOICE_LINE_AMOUNT)"
  TABLE_ALIAS="AP_INV_DETAIL_F"
  COLUMN_NAME="INVOICE_LINE_AMOUNT"
  COLUMN_ALIAS="SUM_INVOICE_LINE_AMOUNT"
  COLUMN_SORT_ORDER="3" COLUMN_POSITION="3"
  COLUMN_TYPE="AGGREGATE" />
</COLUMN_DEFS>
- <TABLE_DEFS>
  <TABLE_DEF TABLE_ALIAS="AP_INV_DETAIL_F"
  TABLE_NAME="AP_INV_DETAIL_F" />
  <TABLE_DEF TABLE_ALIAS="VENDOR_D" TABLE_NAME="VENDOR_D" /
  >
</TABLE_DEFS>
- <DETAIL_FILTERS>
- <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="VENDOR_TYPE"
  TABLE_ALIAS="VENDOR_D" FILTER_PREC_OPER="AND"
  FILTER_OPERATOR="=">
  <FILTER_VALUE VALUE_DATA_TYPE="STRING">EMPLOYEE</
  FILTER_VALUE>
</FILTER>
```

## FIG. 20B

2002

```
- <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="COMPANY_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER_OPERATOR="=">
  <FILTER_VALUE VALUE_DATA_TYPE="STRING">01</FILTER_VALUE>
</FILTER>
</DETAIL_FILTERS>
- <AGGREGATE_FILTERS>
- <FILTER FILTER_TYPE="VALUE"
COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER_OPERATOR=">">
  <FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>
</FILTER>
</AGGREGATE_FILTERS>
</DP_QUERY_DEF>
<DPA_QUERY_SERVER_INFO SERVICE="DPA_QUERY_SERVER"
MACHINE="EXH_2K" PORT="8069"
WAREHOUSE_SERVER="HD.DPAPPLICATIONS.COM"
WAREHOUSE_DBNAME="DEMO30"
WAREHOUSE_OWNER="RROC">FOODADDY</
DPA_QUERY_SERVER_INFO>
- <DP_DS_METADATA>
  <DP_COLUMN COLUMN_NAME="VENDOR_NAME"
COLUMN_DATA_TYPE="VARCHAR2" COLUMN_DS_ALIAS="C1"
COLUMN_TYPE="GROUP_BY" COLUMN_SORT_ATTRIBUTE="NONE"
COLUMN_SOURCE_ALIAS="VENDOR_NAME"
COLUMN_LABEL="VENDOR NAME" COLUMN_DESC=""
COLUMN_IS_CURRENCY="N" />
  <DP_COLUMN COLUMN_NAME="PERIOD_KEY"
COLUMN_DATA_TYPE="VARCHAR2" COLUMN_DS_ALIAS="C2"
COLUMN_TYPE="GROUP_BY" COLUMN_SORT_ATTRIBUTE="NONE"
COLUMN_SOURCE_ALIAS="PERIOD_KEY" COLUMN_LABEL="PERIOD
KEY" COLUMN_DESC="" COLUMN_IS_CURRENCY="N" />
  <DP_COLUMN COLUMN_NAME="SUM_INVOICE_LINE_AMOUNT"
COLUMN_DATA_TYPE="NUMBER" COLUMN_DS_ALIAS="C3"
COLUMN_TYPE="AGGREGATE" COLUMN_SORT_ATTRIBUTE="DESC"
COLUMN_SOURCE_ALIAS="SUM_INVOICE_LINE_AMOUNT"
COLUMN_LABEL="INVOICE LINE AMOUNT" COLUMN_DESC=""
COLUMN_IS_CURRENCY="Y" />
```

20020720 15:55:50

## FIG. 20C

2003  
↙

</DP\_DS\_METADATA>  
- <DP\_DS>  
- <R>  
  <C1>JAMIE FROST</C1>  
  <C2>DEC-97</C2>  
  <C3>28159</C3>  
  </R>  
- <R>  
  <C1>JAMIE FROST</C1>  
  <C2>JAN-98</C2>  
  <C3>15114.76</C3>  
  </R>  
- <R>  
  <C1>JAMIE FROST</C1>  
  <C2>FEB-98</C2>  
  <C3>4417.86</C3>  
  </R>  
- <R>  
  <C1>KERRY JONES</C1>  
  <C2>APR-98</C2>  
  <C3>3439.10</C3>  
  </R>  
- <R>  
  <C1>KERRY JONES</C1>  
  <C2>DEC-97</C2>  
  <C3>3263</C3>  
  </R>  
- <R>  
  <C1>JAMIE FROST</C1>  
  <C2>NOV-97</C2>  
  <C3>2907.85</C3>  
  </R>  
- <R>  
  <C1>KERRY JONES</C1>  
  <C2>FEB-98</C2>  
  <C3>2799.31</C3>  
  </R>

## FIG. 20D

2004

- <R>  
    <C1>KERRY JONES</C1>  
    <C2>MAY-98</C2>  
    <C3>2698.64</C3>  
    </R>  
- <R>  
    <C1>JAMIE FROST</C1>  
    <C2>APR-98</C2>  
    <C3>2657.20</C3>  
    </R>  
- <R>  
    <C1>JAMIE FROST</C1>  
    <C2>MAY-98</C2>  
    <C3>2549.68</C3>  
    </R>  
- <R>  
    <C1>KERRY JONES</C1>  
    <C2>MAR-98</C2>  
    <C3>2511.98</C3>  
    </R>  
- <R>  
    <C1>JAMIE FROST</C1>  
    <C2>MAR-98</C2>  
    <C3>2459.87</C3>  
    </R>  
- <R>  
    <C1>JAMIE FROST</C1>  
    <C2>JUN-98</C2>  
    <C3>2219.90</C3>  
    </R>  
- <R>  
    <C1>KERRY JONES</C1>  
    <C2>JUN-98</C2>  
    <C3>2182.29</C3>  
    </R>  
- <R>  
    <C1>KERRY JONES</C1>  
    <C2>JAN-98</C2>  
    <C3>1516</C3>  
    </R>

20040701 "EOT" 20040701

## FIG. 21R

2118

```
- <ACTIVITY_NODE_ID="152">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="DATA DIRECTIVE"
DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER_NODE_ID="153" PARAM_DATA_TYPE="PARAMETERIZED SQL
STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
USERNAME,EMAIL_ADDRESS FROM OA3.DF_QTYAPP_USERS</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="154" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="CONNECTION STRING"
PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
  <PARAM_SOURCE
PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:N
RB816</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="155" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="156" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="157" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="158" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="159" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
```

20040925 10:55:50

## FIG. 21A

2101

- <DF\_WORKFLOW VERSION="1">  
  <DF\_WORKFLOW\_HEADER DF\_EDITOR\_MAX\_ID="172" FLOW\_NAME="QTY  
ANALYSIS" FLOW\_DESCRIPTION="QTY ANALYSIS FLOW" FLOW\_STATUS="FLOW  
STATUS" FLOW\_NOTES="" FLOW\_AUTHOR="FLOW AUTHOR" />  
- <DF\_WORKFLOW\_PARAMETERS>  
  <PARAMETER NODE\_ID="13" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="CONNECT STRING" PARAM\_NAME="CONNECT\_STRING"  
PARAM\_TYPE="OUT">  
    <PARAM\_SOURCE  
PARAM\_TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</  
PARAM\_SOURCE>  
    </PARAMETER>  
  <PARAMETER NODE\_ID="14" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USER\_NAME"  
PARAM\_TYPE="OUT">  
    <PARAM\_SOURCE PARAM\_TYPE="VALUE">RROC609</PARAM\_SOURCE>  
    </PARAMETER>  
  <PARAMETER NODE\_ID="15" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="USER\_PWD"  
PARAM\_TYPE="OUT">  
    <PARAM\_SOURCE PARAM\_TYPE="VALUE">DPA</PARAM\_SOURCE>  
    </PARAMETER>  
  <PARAMETER NODE\_ID="16" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="OWNERNAME" PARAM\_NAME="OWNERNAME"  
PARAM\_TYPE="OUT">  
    <PARAM\_SOURCE PARAM\_TYPE="VALUE">QTY\_ANALYSIS</PARAM\_SOURCE>  
    </PARAMETER>  
  <PARAMETER NODE\_ID="17" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="CURRENT PERIOD" PARAM\_NAME="CURRPERIOD"  
PARAM\_TYPE="OUT">  
    <PARAM\_SOURCE PARAM\_TYPE="VALUE">(1997-09) SEP-97</  
PARAM\_SOURCE>  
    </PARAMETER>  
  </DF\_WORKFLOW\_PARAMETERS>  
- <DF\_WORKFLOW\_ACTIVITIES>  
  <ACTIVITY NODE\_ID="11">  
    <ACTIVITY\_HEADER ACTIVITY\_NOTES="ACTIVITY NOTES"  
ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" />  
    <ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA"  
DIRECTIVE\_NAME="SCHEDULER" THREADING\_EFFECT="SPLIT"  
DIRECTIVE\_ID="SB1" DIRECTIVE\_VERSION="1" DIRECTIVE\_DESC="SCHEDULE  
DIRECTIVE" />



## FIG. 21B

2102

```
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="12" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="FREQUENCY" PARAM_NAME="FREQUENCY"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">0</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE_ID="18">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
DIRECTIVE_NAME="CLEAR STORED RESULTS"
THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRB1" DIRECTIVE_TYPE=""
DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS
FROM REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="19" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="OWNER ID" PARAM_NAME="OWNERID" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="20" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTNAME" PARAM_NAME="RESULTNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">*</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE_ID="21">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
DIRECTIVE_NAME="CLEAR PUBLISHED PAGES"
THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRC1" DIRECTIVE_TYPE=""
DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS PUBLISHED
PAGES FROM REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="22" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="OWNERID" PARAM_NAME="OWNERID" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
```

## FIG. 21C

2103

```
- <PARAMETER NODE_ID="23" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">*</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
<ACTIVITY_OUT_PARAMETERS />
</ACTIVITY>
- <ACTIVITY NODE_ID="26">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="DETAIL QUERY" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD"
DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="27" PARAM_DATA_TYPE="PARAMETERIZED SQL
STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC
COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)
QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)
QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)
QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)
REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0
NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0
NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0
NW_ORG_PERIOD_D,NW_WIP_ENTITY_D_0 NW_WIP_ENTITY_D WHERE
NW_DISC_SHORTAGE_F.COMPONENT_ITEM_KEY =
NW_COMPONENT_ITEM_D.COMPONENT_ITEM_KEY AND
NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY =
NW_ORG_PERIOD_D.ORG_PERIOD_KEY AND
NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY
=NW_WIP_ENTITY_D.WIP_ENTITY_KEY AND NW_ORG_PERIOD_D.ORG_PERIOD
=#P1# GROUP BY NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC
HAVING SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY
REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC,REQUIRED_QUANTITY,
QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</
PARAM_SOURCE>
</PARAMETER>
```

## FIG. 21D

2104

- <PARAMETER NODE\_ID="28" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="CONNECTION STRING"  
PARAM\_NAME="CONNECTION\_STRING" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="29" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USERNAME"  
PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">14</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="30" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD"  
PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">15</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="31" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">17</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="32" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P2" PARAM\_NAME="P2" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="33" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P3" PARAM\_NAME="P3" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="34" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="35" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
</ACTIVITY\_IN\_PARAMETERS>

## FIG. 21E

2105

```
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="36" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="37" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="39">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="TREND QUERY" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD"
DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="40" PARAM_DATA_TYPE="PARAMETERIZED SQL
STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
NW_ORG_PERIOD_D.ORG_PERIOD
PERIOD_NAME,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)
QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)
QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)
QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)
REQUIRED_QUANTITY FROM NW_DISC_SHORTAGE_F_0
NW_DISC_SHORTAGE_F, NW_ORG_PERIOD_D_0 NW_ORG_PERIOD_D WHERE
NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY =
NW_ORG_PERIOD_D.ORG_PERIOD_KEY GROUP BY
NW_ORG_PERIOD_D.ORG_PERIOD ORDER BY PERIOD_NAME DESC</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="41" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="CONNECTION STRING"
PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
```

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FIG. 21F

2106

```
- <PARAMETER NODE_ID="42" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="43" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="44" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="45" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="46" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="47" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="48" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="49" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="50" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
```

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## FIG. 21G

2107

```
- <ACTIVITY NODE_ID="52">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
  ACTIVITY_DESCRIPTION="SUMMARY QUERY" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
  DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD"
  DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
  DATA AND ASSEMBLE INTO RESULT SET" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="53" PARAM_DATA_TYPE="PARAMETERIZED SQL
  STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
  NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC
  COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)
  QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)
  QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)
  QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)
  REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0
  NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0
  NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0
  NW_ORG_PERIOD_D,NW_WIP_ENTITY_D_0 NW_WIP_ENTITY_D WHERE
  NW_DISC_SHORTAGE_F.COMPONENT_ITEM_KEY =
  NW_COMPONENT_ITEM_D.COMPONENT_ITEM_KEY AND
  NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY =
  NW_ORG_PERIOD_D.ORG_PERIOD_KEY AND
  NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY
  =NW_WIP_ENTITY_D.WIP_ENTITY_KEY AND NW_ORG_PERIOD_D.ORG_PERIOD
  = '#P1#' GROUP BY NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC
  HAVING SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY
  REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC,REQUIRED_QUANTITY,
  QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</
  PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER NODE_ID="54" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="CONNECTION STRING"
  PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER NODE_ID="55" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>
  </PARAMETER>
```

2107 FOR FIG. 21G

## FIG. 21H

2108

- <PARAMETER NODE\_ID="56" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD"  
PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">15</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="57" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">17</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="58" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P2" PARAM\_NAME="P2" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="59" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P3" PARAM\_NAME="P3" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="60" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
- <PARAMETER NODE\_ID="61" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">  
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>  
  </PARAMETER>  
</ACTIVITY\_IN\_PARAMETERS>  
- <ACTIVITY\_OUT\_PARAMETERS>  
- <PARAMETER NODE\_ID="62" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="RESULT DATA" PARAM\_NAME="RESULTSET"  
PARAM\_TYPE="OUT">  
  <PARAM\_SOURCE />  
  </PARAMETER>  
- <PARAMETER NODE\_ID="63" PARAM\_DATA\_TYPE="STRING"  
PARAM\_CAPTION="RESULT METADATA" PARAM\_NAME="RESULTMETADATA"  
PARAM\_TYPE="OUT">  
  <PARAM\_SOURCE />  
  </PARAMETER>  
</ACTIVITY\_OUT\_PARAMETERS>  
</ACTIVITY>

## FIG. 21I

2109

```
- <ACTIVITY_NODE_ID="65">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
  ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
  THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
  DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
  DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER_NODE_ID="66" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="67" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">36</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="68" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULT SET METADATA"
  PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">37</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER_NODE_ID="69" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DETAIL</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER_NODE_ID="70" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID"
  PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY_NODE_ID="72">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
  ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
  THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
  DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
  DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
```

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## FIG. 21J

2110

```
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="73" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="74" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">49</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="75" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET METADATA"
PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">50</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="76" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">TREND</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="77" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="79">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS"
DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="80" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
```

## FIG. 21K

2111

```
- <PARAMETER NODE_ID="81" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">62</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="82" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET METADATA" PARAM_NAME="RESULTMETADATA"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">63</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="83" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SUMMARY</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="84" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="87">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="PUBLISH PAGE"
DIRECTIVE_ID="CR2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="PUBLISHES PAGE & GRANTS SECURITY" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="88" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECDOC"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="89" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="METADATA FOR SECDOC" PARAM_NAME="SECMETA"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE>
</PARAMETER>
```

## FIG. 21L

2112

```
- <PARAMETER NODE_ID="90" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECCOLNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="91" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="92" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">STARTPAGE</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="93" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">FIRST</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="94" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE DEFINITION" PARAM_NAME="PAGEDEFN"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE"><DP_PAGE_DEF><LAYER
LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3"
LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><LAYER
LAYER_TYPE="VERTICAL" LAYER_PADDING="3" LAYER_BORDER="0"
LAYER_HEIGHT="225" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET"
LAYER_HEIGHT="100%" LAYER_WIDTH="50%"><WIDGET
WIDGET_ID="DP_PIE_CHART"><PARAMETERS><PARAM
PARAM_NAME="TITLE">MY PIE</PARAM><PARAM PARAM_NAME="DSID">#P3#</
PARAM><PARAM PARAM_NAME="VALUECOL">REQUIRED_QUANTITY</
PARAM><PARAM PARAM_NAME="LABELCOL">COMPONENT_ITEM_DESC</
PARAM><PARAM PARAM_NAME="FILTERTYPE">TOP</PARAM><PARAM
PARAM_NAME="FILTERVAL">10</PARAM></PARAMETERS></WIDGET></
LAYER><LAYER LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%"
LAYER_WIDTH="50%"><WIDGET
WIDGET_ID="DP_BAR_CHART2"><PARAMETERS><PARAM
PARAM_NAME="TITLE">MY CHART TITLE</PARAM><PARAM
PARAM_NAME="DSID">#P2#</PARAM><PARAM
PARAM_NAME="MEASURECOLS">QUANTITY_ON_HAND|QUANTITY_ISSUED|QUA
NTITY_SHORT|REQUIRED_QUANTITY</PARAM><PARAM
PARAM_NAME="XAXISLABELS">ON HAND|ISSUED|SHORT|REQUIRED</
PARAM><PARAM PARAM_NAME="SERIESCOL">PERIOD_NAME</PARAM></
PARAMETERS></WIDGET></LAYER></LAYER><LAYER
LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3"
```

## FIG. 21M

2113

```
LAYER_HEIGHT="80%" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET"
LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><WIDGET
WIDGET_ID="DP_REPORT_VIEWER"><PARAMETERS><PARAM
PARAM_NAME="TITLE">MY TITLE</PARAM> <PARAM
PARAM_NAME="DSID">#P1#</PARAM></PARAMETERS></WIDGET></LAYER></
LAYER></LAYER></DP_PAGE_DEF></PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="95" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P1" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="96" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P2" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">77</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="97" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P3" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">84</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="98" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P4" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="99" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P5" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="100" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P6" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="101" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE ID" PARAM_NAME="PAGEID" PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="102" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER"
PARAM_TYPE="OUT">
<PARAM_SOURCE />
</PARAMETER>
```

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## FIG. 21N

2114

```
- <PARAMETER NODE_ID="103" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="104" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="108">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="OUTOF BOUNDS QTY" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="ADVANCED FILTER"
DIRECTIVE_ID="ABFILTER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="FILTER RESULTS" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="109" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="FILTER EXPRESSION" PARAM_NAME="FILTER_EXP"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">#REQUIRED_QUANTITY# > 200</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="110" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">63</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="111" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">62</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
</ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="112" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
```

2115

```
- <PARAMETER NODE_ID="113" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
- <PARAMETER NODE_ID="114" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="ROW COUNT" PARAM_NAME="ROWCOUNT"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="116">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="TEXT EMAILER"
DIRECTIVE_ID="TEXTEMAILER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="TEXT EMAILER" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="117" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="SUBJECT EXPRESSION" PARAM_NAME="SUBJECT_EXP"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OUT OF BOUNDS QTY CONDITION</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="118" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="MESSAGE EXPRESSION" PARAM_NAME="MESSAGE_EXP"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">COMPONENT:
#COMPONENT_ITEM_DESC# REQUIRES #REQUIRED_QUANTITY# ADDITIONAL
UNITS</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="119" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="EMAIL ADDRESSES" PARAM_NAME="EMAIL_ADDRESSES"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">EXH@DPAPPLICATIONS.COM</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="120" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="SEND FROM ADDRESS" PARAM_NAME="FROM_ADDRESS"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</
PARAM_SOURCE>
</PARAMETER>
```

## FIG. 21P

2116

```
- <PARAMETER NODE_ID="121" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">112</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="122" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">113</PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="123" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
- <ACTIVITY NODE_ID="125">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY_DESCRIPTION="EMAIL LINK" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SMTP EMAIL DIRECTIVE"
DIRECTIVE_ID="MB2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
DIRECTIVE_DESC="SEND PUBLISHED PAGES" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="126" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="EMAIL ADDRESSES" PARAM_NAME="ADDRDOC"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="127" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="METADATA FOR ADDRDOC" PARAM_NAME="ADDRMETA"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="128" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="ADDRCOLNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">EMAIL_ADDRESS</PARAM_SOURCE>
</PARAMETER>
```

## FIG. 21Q

2117

```
- <PARAMETER NODE_ID="129" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="IDCOLNAME"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="130" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="SUBJECT" PARAM_NAME="SUBJECT" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">QTY ANALYSIS UPDATED</
PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="131" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">102</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="132" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">103</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="133" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="PAGE INSTANCE" PARAM_NAME="PAGEINST"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">104</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="134" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="MAIL FORMAT" PARAM_NAME="FORMAT" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DYNAM</PARAM_SOURCE>
</PARAMETER>
- <PARAMETER NODE_ID="135" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="SEND FROM MAIL ADDRESS" PARAM_NAME="SENDFROM"
PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</
PARAM_SOURCE>
</PARAMETER>
</ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="136" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR_MSG"
PARAM_TYPE="OUT">
  <PARAM_SOURCE />
</PARAMETER>
</ACTIVITY_OUT_PARAMETERS>
</ACTIVITY>
```



## FIG. 21R

```
- <ACTIVITY_NODE_ID="152">
  <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
  ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />
  <ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"
  THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="DATA DIRECTIVE"
  DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
  DATA AND ASSEMBLE INTO RESULT SET" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER_NODE_ID="153" PARAM_DATA_TYPE="PARAMETERIZED SQL
  STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT
  USERNAME,EMAIL_ADDRESS FROM OA3.DF_QTYAPP_USERS</
  PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER_NODE_ID="154" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="CONNECTION STRING"
  PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
  <PARAM_SOURCE
  PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:N
  RB816</PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER_NODE_ID="155" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER_NODE_ID="156" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
  PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER_NODE_ID="157" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER_NODE_ID="158" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
  </PARAMETER>
- <PARAMETER_NODE_ID="159" PARAM_DATA_TYPE="STRING"
  PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
  </PARAMETER>
```

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## FIG. 21S

2119

```
- <PARAMETER NODE_ID="160" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
- <PARAMETER NODE_ID="161" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">  
  <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>  
</PARAMETER>  
</ACTIVITY_IN_PARAMETERS>  
- <ACTIVITY_OUT_PARAMETERS>  
- <PARAMETER NODE_ID="162" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"  
PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
- <PARAMETER NODE_ID="163" PARAM_DATA_TYPE="STRING"  
PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"  
PARAM_TYPE="OUT">  
  <PARAM_SOURCE />  
</PARAMETER>  
</ACTIVITY_OUT_PARAMETERS>  
</ACTIVITY>  
</DF_WORKFLOW_ACTIVITIES>  
- <DF_WORKFLOW_TRANSITIONS>  
  <TRANSITION NODE_ID="24" FROM_ACTIVITY_ID="11" TO_ACTIVITY_ID="18"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="25" FROM_ACTIVITY_ID="11" TO_ACTIVITY_ID="21"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="71" FROM_ACTIVITY_ID="26" TO_ACTIVITY_ID="65"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="78" FROM_ACTIVITY_ID="39" TO_ACTIVITY_ID="72"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="85" FROM_ACTIVITY_ID="52" TO_ACTIVITY_ID="79"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="105" FROM_ACTIVITY_ID="65" TO_ACTIVITY_ID="87"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="106" FROM_ACTIVITY_ID="72" TO_ACTIVITY_ID="87"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="107" FROM_ACTIVITY_ID="79" TO_ACTIVITY_ID="87"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="115" FROM_ACTIVITY_ID="52" TO_ACTIVITY_ID="108"  
TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
  <TRANSITION NODE_ID="124" FROM_ACTIVITY_ID="108" TO_ACTIVITY_ID="116"  
TRANSITION_EXPRESSION="#114# > "0" DESCRIPTION="EMAIL ONLY EXCEPTIONS"  
NOTES="NOTES" />
```

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## FIG. 21T

2120

<TRANSITION NODE\_ID="137" FROM\_ACTIVITY\_ID="87" TO\_ACTIVITY\_ID="125"  
TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
<TRANSITION NODE\_ID="164" FROM\_ACTIVITY\_ID="18" TO\_ACTIVITY\_ID="152"  
TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
<TRANSITION NODE\_ID="165" FROM\_ACTIVITY\_ID="21" TO\_ACTIVITY\_ID="152"  
TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
<TRANSITION NODE\_ID="166" FROM\_ACTIVITY\_ID="152" TO\_ACTIVITY\_ID="26"  
TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
<TRANSITION NODE\_ID="167" FROM\_ACTIVITY\_ID="152" TO\_ACTIVITY\_ID="39"  
TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
<TRANSITION NODE\_ID="168" FROM\_ACTIVITY\_ID="152" TO\_ACTIVITY\_ID="52"  
TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" />  
</DF\_WORKFLOW\_TRANSITIONS>  
- <DF\_WORKFLOW\_EDITOR>  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="11" YCOORD="140" XCOORD="12" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="18" YCOORD="330" XCOORD="47" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="21" YCOORD="50" XCOORD="60" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="26" YCOORD="200" XCOORD="294" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="39" YCOORD="70" XCOORD="294" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="52" YCOORD="320" XCOORD="304" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="65" YCOORD="200" XCOORD="408" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="72" YCOORD="70" XCOORD="408" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="79" YCOORD="320" XCOORD="428" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="87" YCOORD="200" XCOORD="537" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="108" YCOORD="430" XCOORD="359" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="116" YCOORD="420" XCOORD="587" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="125" YCOORD="320" XCOORD="580" />  
<ACTIVITY\_VISUAL\_EDITING NODE\_ID="152" YCOORD="200" XCOORD="160" />  
</DF\_WORKFLOW\_EDITOR>  
</DF\_WORKFLOW>

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## FIG. 22A

2201

```
<DP_QUERY_DEF VERSION="1">
  <DPA_IDENTIFIERS DATA_SET="OAS" WH_OWNER_NAME="PART"/>
  <HINTS/>
  <COLUMN_DEFS>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_BUDGET"
      COLUMN_ALIAS="PTD_BUDGET" COLUMN_SORT_ORDER="3"
      COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE"
      COLUMN_EXPR="" COLUMN_POSITION="3" TABLE_ALIAS="INCOME_STMT_A"
      COLUMN_TAG="PTD_BUDGET"/>
    <COLUMN_DEF SUMMARY_TYPE="NONE" COLUMN_NAME="LINE_NAME"
      COLUMN_ALIAS="LINE_NAME" COLUMN_SORT_ORDER="1"
      COLUMN_SORT_ATTRIBUTE="ASC" COLUMN_TYPE="ATTRIBUTE"
      COLUMN_EXPR="" COLUMN_POSITION="1" TABLE_ALIAS="INC_STMT_LINES_D"
      COLUMN_TAG="LINE_NAME"/>
    <COLUMN_DEF SUMMARY_TYPE="SUM"
      COLUMN_NAME="PTD_VARIANCE_PCT" COLUMN_ALIAS="PTD_VARIANCE_PCT"
      COLUMN_SORT_ORDER="6" COLUMN_SORT_ATTRIBUTE="NONE"
      COLUMN_TYPE="MEASURE" COLUMN_EXPR="" COLUMN_POSITION="6"
      TABLE_ALIAS="INCOME_STMT_A" COLUMN_TAG="PTD_VAR_PCT"/>
    <COLUMN_DEF SUMMARY_TYPE="NONE"
      COLUMN_NAME="DEPARTMENT_DESC" COLUMN_ALIAS="DEPT_DESC"
      COLUMN_SORT_ORDER="2" COLUMN_SORT_ATTRIBUTE="ASC"
      COLUMN_TYPE="ATTRIBUTE" COLUMN_EXPR="" COLUMN_POSITION="2"
      TABLE_ALIAS="DEPARTMENT_D" COLUMN_TAG="DEPT_DESC"/>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_VARIANCE"
      COLUMN_ALIAS="PTD_VARIANCE" COLUMN_SORT_ORDER="5"
      COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE"
      COLUMN_EXPR="" COLUMN_POSITION="5" TABLE_ALIAS="INCOME_STMT_A"
      COLUMN_TAG="PTD_VAR"/>
    <COLUMN_DEF SUMMARY_TYPE="SUM" COLUMN_NAME="PTD_ACTUAL"
      COLUMN_ALIAS="PTD_ACTUAL" COLUMN_SORT_ORDER="4"
      COLUMN_SORT_ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE"
      COLUMN_EXPR="" COLUMN_POSITION="4" TABLE_ALIAS="INCOME_STMT_A"
      COLUMN_TAG="PTD_ACTUAL"/>
  </COLUMN_DEFS>
```

## FIG. 22B

2202

```
<TABLE_DEFS>
  <TABLE_DEF TABLE_ALIAS="VENDOR_D" TABLE_NAME="VENDOR_D"/>
  <TABLE_DEF TABLE_ALIAS="AP_INV_DETAIL_F"
TABLE_NAME="AP_INV_DETAIL_F"/>
  <TABLE_DEF TABLE_ALIAS="INCOME_STMT_A"
TABLE_NAME="INCOME_STMT_A"/>
  <TABLE_DEF TABLE_ALIAS="DEPARTMENT_D"
TABLE_NAME="DEPARTMENT_D"/>
  <TABLE_DEF TABLE_ALIAS="INC_STMT_LINES_D"
TABLE_NAME="INC_STMT_LINES_D"/>
</TABLE_DEFS>
<DETAIL_FILTERS>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="PERIOD_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">DEC-97</FILTER_VALUE>
  </FILTER>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="VENDOR_TYPE"
TABLE_ALIAS="VENDOR_D" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">EMPLOYEE</
FILTER_VALUE>
  </FILTER>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="COMPANY_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">01</FILTER_VALUE>
  </FILTER>
  <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="DEPARTMENT_KEY"
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER_OPERATOR="=">
    <FILTER_VALUE VALUE_DATA_TYPE="STRING">560</FILTER_VALUE>
  </FILTER>
</DETAIL_FILTERS>
<AGGREGATE_FILTERS>
  <FILTER FILTER_TYPE="VALUE"
COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)" TABLE_ALIAS="AP_INV_DETAIL_F"
FILTER_PREC_OPER="AND" FILTER_OPERATOR="&GT;">
    <FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>
  </FILTER>
</AGGREGATE_FILTERS>
</DP_QUERY_DEF>
```

## FIG. 23A

2301

```
- <DP_SCHEMA_DOC VERSION="1">
  <DPA_QUERY_SERVER_INFO SERVICE="DPA_QUERY_SERVER"
  MACHINE="EXH_2K" PORT="8069"
  WAREHOUSE_SERVER="HD.DPAPPLICATIONS.COM"
  WAREHOUSE_DBNAME="DEMO30" WAREHOUSE_OWNER="RROC"
  SCHEMA="AP_INV_DETAIL_F" DATA_SET="NW">FOODADDY</
  DPA_QUERY_SERVER_INFO>
- <DP_DIMENSIONS>
- <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING_DATE_D">
  <ATTRIBUTE LABEL="ACCOUNTING DATE KEY"
  NAME="ACCOUNTING_DATE_KEY" />
  <ATTRIBUTE LABEL="ACCOUNTING MONTH" NAME="ACCOUNTING_MONTH" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD" NAME="ACCOUNTING_PERIOD" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD KEY"
  NAME="ACCOUNTING_PERIOD_KEY" />
  <ATTRIBUTE LABEL="ACCOUNTING PERIOD QUARTER"
  NAME="ACCOUNTING_PERIOD_QUARTER" />
  <ATTRIBUTE LABEL="ACCOUNTING QUARTER"
  NAME="ACCOUNTING_QUARTER" />
  <ATTRIBUTE LABEL="ACCOUNTING WEEK ENDING"
  NAME="ACCOUNTING_WEEK_ENDING" />
  <ATTRIBUTE LABEL="ACCOUNTING YEAR" NAME="ACCOUNTING_YEAR" />
  </DIMENSION>
- <DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT_D">
  <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
  <ATTRIBUTE LABEL="LINE NAME" NAME="LINE_NAME" />
  <ATTRIBUTE LABEL="LINE SEQUENCE KEY" NAME="LINE_SEQUENCE_KEY" />
  <ATTRIBUTE LABEL="REPORT SECTION" NAME="REPORT_SECTION" />
  <ATTRIBUTE LABEL="REPORT SEQUENCE" NAME="REPORT_SEQUENCE" />
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT_KEY" />
  <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT_DESC" />
  </DIMENSION>
- <DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT_RLUP_D">
  <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT_KEY" />
  <ATTRIBUTE LABEL="ACCOUNT ROLLUP DESCRIPTION"
  NAME="ROLLUP_DESC" />
  <ATTRIBUTE LABEL="ACCOUNT ROLLUP CODE" NAME="ROLLUP_CODE" />
  <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT_DESC" />
  </DIMENSION>
```

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FIG. 23B

2302

```
- <DIMENSION LABEL="AP HOLD CODES" NAME="AP_HOLD_CODE_D">
  <ATTRIBUTE LABEL="AP HOLD CODE" NAME="AP_HOLD_CODE" />
  <ATTRIBUTE LABEL="AP HOLD CODE DESCRIPTION"
NAME="AP_HOLD_CODE_DESC" />
  <ATTRIBUTE LABEL="AP HOLD CODE KEY" NAME="AP_HOLD_CODE_KEY" />
  <ATTRIBUTE LABEL="AP HOLD CODE TYPE" NAME="AP_HOLD_CODE_TYPE" />
</DIMENSION>
- <DIMENSION LABEL="AP HOLD STATUS" NAME="AP_HOLD_STATUS_D">
  <ATTRIBUTE LABEL="AP HOLD STATUS" NAME="AP_HOLD_STATUS" />
  <ATTRIBUTE LABEL="AP HOLD STATUS KEY" NAME="AP_HOLD_STATUS_KEY" /
>
</DIMENSION>
- <DIMENSION LABEL="AP INVOICES" NAME="AP_INVOICE_D">
  <ATTRIBUTE LABEL="AP INVOICE NUMBER" NAME="AP_INVOICE" />
  <ATTRIBUTE LABEL="AP INVOICE DATE" NAME="AP_INVOICE_DATE" />
  <ATTRIBUTE LABEL="AP INVOICE KEY" NAME="AP_INVOICE_KEY" />
</DIMENSION>
- <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP_INVOICE_TYPE_D">
  <ATTRIBUTE LABEL="AP INVOICE TYPE" NAME="AP_INVOICE_TYPE" />
  <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP_INVOICE_TYPE_KEY" /
>
</DIMENSION>
- <DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP_PAYMENT_TERM_D">
  <ATTRIBUTE LABEL="AP PAYMENT TERM" NAME="AP_PAYMENT_TERM" />
  <ATTRIBUTE LABEL="AP PAYMENT TERM DESCRIPTION"
NAME="AP_PAYMENT_TERM_DESC" />
  <ATTRIBUTE LABEL="AP PAYMENT TERM KEY"
NAME="AP_PAYMENT_TERM_KEY" />
</DIMENSION>
- <DIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER_D">
  <ATTRIBUTE LABEL="AUTHORIZER" NAME="AUTHORIZER" />
  <ATTRIBUTE LABEL="AUTHORIZER KEY" NAME="AUTHORIZER_KEY" />
</DIMENSION>
- <DIMENSION LABEL="BUYERS" NAME="BUYER_D">
  <ATTRIBUTE LABEL="BUYER" NAME="BUYER" />
  <ATTRIBUTE LABEL="AUTHORIZATION LIMIT"
NAME="BUYER_AUTHORIZATION_LIMIT" />
  <ATTRIBUTE LABEL="END DATE ACTIVE" NAME="BUYER_END_DATE_ACTIVE" />
  <ATTRIBUTE LABEL="BUYER KEY" NAME="BUYER_KEY" />
  <ATTRIBUTE LABEL="START DATE ACTIVE"
NAME="BUYER_START_DATE_ACTIVE" />
</DIMENSION>
```

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## FIG. 23C

2303

```
- <DIMENSION LABEL="COMPANY" NAME="COMPANY_D">
  <ATTRIBUTE LABEL="COMPANY" NAME="COMPANY" />
  <ATTRIBUTE LABEL="COMPANY DESCRIPTION" NAME="COMPANY_DESC" />
  <ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY_KEY" />
</DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY_D">
  <ATTRIBUTE LABEL="CURRENCY" NAME="CURRENCY" />
  <ATTRIBUTE LABEL="CURRENCY DESCRIPTION" NAME="CURRENCY_DESC" />
  <ATTRIBUTE LABEL="CURRENCY KEY" NAME="CURRENCY_KEY" />
</DIMENSION>
- <DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT_D">
  <ATTRIBUTE LABEL="DEPARTMENT" NAME="DEPARTMENT" />
  <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
  <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT_DESC" />
>
</DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT_RLUP_D">
  <ATTRIBUTE LABEL="DEPARTMENT" NAME="DEPARTMENT" />
  <ATTRIBUTE LABEL="DEPARTMENT ROLLUP DESC" NAME="ROLLUP_DESC" />
  <ATTRIBUTE LABEL="DEPARTMENT ROLLUP CODE" NAME="ROLLUP_CODE" />
  <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT_DESC" />
>
  <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
</DIMENSION>
- <DIMENSION LABEL="AP DUE DATES" NAME="DUE_DATE_D">
  <ATTRIBUTE LABEL="DUE DATE KEY" NAME="DUE_DATE_KEY" />
  <ATTRIBUTE LABEL="DUE MONTH" NAME="DUE_MONTH" />
  <ATTRIBUTE LABEL="DUE PERIOD" NAME="DUE_PERIOD" />
  <ATTRIBUTE LABEL="DUE PERIOD KEY" NAME="DUE_PERIOD_KEY" />
  <ATTRIBUTE LABEL="DUE PERIOD QUARTER" NAME="DUE_PERIOD_QUARTER" />
  <ATTRIBUTE LABEL="DUE QUARTER" NAME="DUE_QUARTER" />
  <ATTRIBUTE LABEL="DUE WEEK ENDING" NAME="DUE_WEEK_ENDING" />
  <ATTRIBUTE LABEL="DUE YEAR" NAME="DUE_YEAR" />
</DIMENSION>
- <DIMENSION LABEL="INVOICE DATES" NAME="INVOICE_DATE_D">
  <ATTRIBUTE LABEL="INVOICE DATE KEY" NAME="INVOICE_DATE_KEY" />
  <ATTRIBUTE LABEL="INVOICE MONTH" NAME="INVOICE_MONTH" />
  <ATTRIBUTE LABEL="INVOICE PERIOD" NAME="INVOICE_PERIOD" />
  <ATTRIBUTE LABEL="INVOICE PERIOD KEY" NAME="INVOICE_PERIOD_KEY" />
  <ATTRIBUTE LABEL="INVOICE PERIOD QUARTER"
NAME="INVOICE_PERIOD_QUARTER" />
  <ATTRIBUTE LABEL="INVOICE QUARTER" NAME="INVOICE_QUARTER" />
  <ATTRIBUTE LABEL="INVOICE WEEK ENDING" NAME="INVOICE_WEEK_ENDING" />
  <ATTRIBUTE LABEL="INVOICE YEAR" NAME="INVOICE_YEAR" />
</DIMENSION>
```



## FIG. 23D

2304

```
- <DIMENSION LABEL="JE BATCHS" NAME="JE_BATCH_D">
  <ATTRIBUTE LABEL="ACTUAL FLAG" NAME="ACTUAL_FLAG" />
  <ATTRIBUTE LABEL="DEFAULT PERIOD NAME"
NAME="DEFAULT_PERIOD_NAME" />
  <ATTRIBUTE LABEL="JE BATCH KEY" NAME="JE_BATCH_KEY" />
  <ATTRIBUTE LABEL="NAME" NAME="NAME" />
  <ATTRIBUTE LABEL="ORG ID" NAME="ORG_ID" />
  <ATTRIBUTE LABEL="DESCRIPTION" NAME="DESCRIPTION" />
  <ATTRIBUTE LABEL="DATE CREATED" NAME="DATE_CREATED" />
</DIMENSION>
- <DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION_D">
  <ATTRIBUTE LABEL="ORGANIZATION" NAME="ORGANIZATION" />
  <ATTRIBUTE LABEL="ORGANIZATION KEY" NAME="ORGANIZATION_KEY" />
  <ATTRIBUTE LABEL="ORGANIZATION TYPE" NAME="ORGANIZATION_TYPE" />
</DIMENSION>
- <DIMENSION LABEL="PA PROJECTS" NAME="PA_PROJECT_D">
  <ATTRIBUTE LABEL="PROJECT KEY" NAME="PA_PROJECT_KEY" />
  <ATTRIBUTE LABEL="PROJECT COMPLETE DATE"
NAME="PROJECT_COMPLETE_DATE" />
  <ATTRIBUTE LABEL="PROJECT MANAGER" NAME="PROJECT_MANAGER" />
  <ATTRIBUTE LABEL="PROJECT NAME" NAME="PROJECT_NAME" />
  <ATTRIBUTE LABEL="PROJECT NUMBER" NAME="PROJECT_NUMBER" />
  <ATTRIBUTE LABEL="PROJECT OFFICER" NAME="PROJECT_OFFICER" />
  <ATTRIBUTE LABEL="PROJECT SPONSOR" NAME="PROJECT_SPONSOR" />
  <ATTRIBUTE LABEL="PROJECT START DATE" NAME="PROJECT_START_DATE" />
  <ATTRIBUTE LABEL="PROJECT STATUS" NAME="PROJECT_STATUS" />
  <ATTRIBUTE LABEL="PROJECT TITLE" NAME="PROJECT_TITLE" />
  <ATTRIBUTE LABEL="PROJECT TYPE" NAME="PROJECT_TYPE" />
</DIMENSION>
- <DIMENSION LABEL="PA TASKS" NAME="PA_TASK_D">
  <ATTRIBUTE LABEL="PARENT TASK KEY" NAME="PARENT_TASK_KEY" />
  <ATTRIBUTE LABEL="TASK LOCATION" NAME="TASK_LOCATION" />
  <ATTRIBUTE LABEL="TASK NAME" NAME="TASK_NAME" />
  <ATTRIBUTE LABEL="TASK MANAGER" NAME="TASK_MANAGER" />
  <ATTRIBUTE LABEL="TOP TASK NAME" NAME="TOP_TASK_NAME" />
  <ATTRIBUTE LABEL="TOP TASK KEY" NAME="TOP_TASK_KEY" />
  <ATTRIBUTE LABEL="TASK WBS" NAME="TASK_WBS" />
  <ATTRIBUTE LABEL="TASK START DATE" NAME="TASK_START_DATE" />
  <ATTRIBUTE LABEL="TASK NUMBER" NAME="TASK_NUMBER" />
  <ATTRIBUTE LABEL="TASK DESCRIPTION" NAME="TASK_DESC" />
  <ATTRIBUTE LABEL="PARENT TASK NAME" NAME="PARENT_TASK_NAME" />
  <ATTRIBUTE LABEL="PROJECT KEY" NAME="PA_PROJECT_KEY" />
  <ATTRIBUTE LABEL="TASK COMPLETE DATE" NAME="TASK_COMPLETE_DATE" />
>
  <ATTRIBUTE LABEL="TASK KEY" NAME="PA_TASK_KEY" />
</DIMENSION>
```

## FIG. 23E

2305

```
- <DIMENSION LABEL="PERIODS" NAME="PERIOD_D">
  <ATTRIBUTE LABEL="PERIOD" NAME="PERIOD" />
  <ATTRIBUTE LABEL="PERIOD END DATE" NAME="PERIOD_END_DATE" />
  <ATTRIBUTE LABEL="PERIOD KEY" NAME="PERIOD_KEY" />
  <ATTRIBUTE LABEL="PERIOD START DATE" NAME="PERIOD_START_DATE" />
  <ATTRIBUTE LABEL="PERIOD TYPE" NAME="PERIOD_TYPE" />
  <ATTRIBUTE LABEL="QUARTER" NAME="QUARTER" />
  <ATTRIBUTE LABEL="YEAR" NAME="YEAR" />
</DIMENSION>
- <DIMENSION LABEL="PRODUCT" NAME="PRODUCT_D">
  <ATTRIBUTE LABEL="PRODUCT" NAME="PRODUCT" />
  <ATTRIBUTE LABEL="PRODUCT DESCRIPTION" NAME="PRODUCT_DESC" />
  <ATTRIBUTE LABEL="PRODUCT KEY" NAME="PRODUCT_KEY" />
</DIMENSION>
- <DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT_CLASS_D">
  <ATTRIBUTE LABEL="PROJECT CLASS CATEGORY"
NAME="PROJECT_CLASS_CATEGORY" />
  <ATTRIBUTE LABEL="PROJECT CLASS CODE" NAME="PROJECT_CLASS_CODE" /
>
  <ATTRIBUTE LABEL="PROJECT CLASS DESCRIPTION"
NAME="PROJECT_CLASS_DESCRIPTION" />
  <ATTRIBUTE LABEL="PROJECT KEY" NAME="PROJECT_KEY" />
</DIMENSION>
- <DIMENSION LABEL="PO REQUESTORS" NAME="REQUESTOR_D">
  <ATTRIBUTE LABEL="REQUESTOR" NAME="REQUESTOR" />
  <ATTRIBUTE LABEL="REQUESTOR KEY" NAME="REQUESTOR_KEY" />
</DIMENSION>
- <DIMENSION LABEL="SUB-ACCOUNT" NAME="SUB_ACCOUNT_D">
  <ATTRIBUTE LABEL="SUB-ACCOUNT" NAME="SUB_ACCOUNT" />
  <ATTRIBUTE LABEL="SUB-ACCOUNT KEY" NAME="SUB_ACCOUNT_KEY" />
  <ATTRIBUTE LABEL="SUB-ACCOUNT DESCRIPTION"
NAME="SUB_ACCOUNT_DESC" />
</DIMENSION>
- <DIMENSION LABEL="AP VENDORS" NAME="VENDOR_D">
  <ATTRIBUTE LABEL="ACTIVE END DATE" NAME="ACTIVE_END_DATE" />
  <ATTRIBUTE LABEL="ACTIVE FLAG" NAME="ACTIVE_FLAG" />
  <ATTRIBUTE LABEL="ACTIVE START DATE" NAME="ACTIVE_START_DATE" />
  <ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE1" NAME="ADDRESS_LINE1" />
  <ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE2" NAME="ADDRESS_LINE2" />
  <ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE3" NAME="ADDRESS_LINE3" />
  <ATTRIBUTE LABEL="VENDOR SITE AREA CODE" NAME="AREA_CODE" />
  <ATTRIBUTE LABEL="VENDOR SITE CITY" NAME="CITY" />
  <ATTRIBUTE LABEL="VENDOR HOLD REASON" NAME="HOLD_REASON" />
  <ATTRIBUTE LABEL="VENDOR SITE PHONE NUMBER" NAME="PHONE_NUMBER" /
>
```

## FIG. 23F

2306

```
<ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" />
<ATTRIBUTE LABEL="VENDOR SITE STATE" NAME="STATE" />
<ATTRIBUTE LABEL="VENDOR TAX FEDERAL FLAG"
NAME="TAX_FEDERAL_REPORT_FLAG" />
<ATTRIBUTE LABEL="VENDOR TAX REPORTING NAME"
NAME="TAX_REPORTING_NAME" />
<ATTRIBUTE LABEL="VENDOR TAX STATE FLAG"
NAME="TAX_STATE_REPORT_FLAG" />
<ATTRIBUTE LABEL="VENDOR 1099 NUMBER" NAME="VENDOR_1099_NUM" />
<ATTRIBUTE LABEL="VENDOR 1099 TYPE" NAME="VENDOR_1099_TYPE" />
<ATTRIBUTE LABEL="VENDOR CORPORATE GROUP"
NAME="VENDOR_CORPORATE_GROUP" />
<ATTRIBUTE LABEL="VENDOR INDUSTRY CLASS"
NAME="VENDOR_INDUSTRY_CLASS" />
<ATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR_KEY" />
<ATTRIBUTE LABEL="VENDOR NAME" NAME="VENDOR_NAME" />
<ATTRIBUTE LABEL="VENDOR NUMBER" NAME="VENDOR_NUMBER" />
<ATTRIBUTE LABEL="VENDOR ORGANIZATION TYPE"
NAME="VENDOR_ORG_TYPE" />
<ATTRIBUTE LABEL="VENDOR PAYMENT PRIORITY"
NAME="VENDOR_PAYMENT_PRIORITY" />
<ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR_PAY_GROUP" />
<ATTRIBUTE LABEL="VENDOR SITE CODE" NAME="VENDOR_SITE_CODE" />
<ATTRIBUTE LABEL="VENDOR SITE KEY" NAME="VENDOR_SITE_KEY" />
<ATTRIBUTE LABEL="VENDOR TYPE" NAME="VENDOR_TYPE" />
<ATTRIBUTE LABEL="VENDOR SITE ZIP" NAME="ZIP" />
</DIMENSION>
- <DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP_INV_DETAIL_F">
  <ATTRIBUTE LABEL="ACCOUNTING DATE" NAME="ACCOUNTING_DATE" />
  <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING_DATE_KEY"
/>
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT_KEY" />
  <ATTRIBUTE LABEL="APPROVAL STATUS" NAME="APPROVAL_STATUS" />
  <ATTRIBUTE LABEL="AP INVOICE KEY" NAME="AP_INVOICE_KEY" />
  <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP_INVOICE_TYPE_KEY" />
  <ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP_PAYMENT_TERM_KEY"
/>
  <ATTRIBUTE LABEL="BUYER KEY" NAME="BUYER_KEY" />
  <ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY_KEY" />
  <ATTRIBUTE LABEL="INVOICE CURRENCY CODE" NAME="CURRENCY_KEY" />
  <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT_KEY" />
  <ATTRIBUTE LABEL="DUE DATE" NAME="DUE_DATE" />
  <ATTRIBUTE LABEL="DUE DATE KEY" NAME="DUE_DATE_KEY" />
  <ATTRIBUTE LABEL="TOTAL INVOICE AMOUNT" NAME="INVOICE_AMOUNT" />
```

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FIG. 23G

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<ATTRIBUTE LABEL="INVOICE DATE" NAME="INVOICE\_DATE" />  
<ATTRIBUTE LABEL="INVOICE DATE KEY" NAME="INVOICE\_DATE\_KEY" />  
<ATTRIBUTE LABEL="INVOICE DESCRIPTION" NAME="INVOICE\_DESC" />  
<ATTRIBUTE LABEL="INVOICE ID KEY" NAME="INVOICE\_ID\_KEY" />  
<ATTRIBUTE LABEL="INVOICE LINE DESCRIPTION"  
NAME="INVOICE\_LINE\_DESC" />  
<ATTRIBUTE LABEL="INVOICE LINE NUMBER" NAME="INVOICE\_LINE\_NUMBER" />  
>  
<ATTRIBUTE LABEL="INVOICE LINE TYPE" NAME="INVOICE\_LINE\_TYPE" />  
<ATTRIBUTE LABEL="INVOICE NUMBER" NAME="INVOICE\_NUMBER" />  
<ATTRIBUTE LABEL="INVOICE TAX AMOUNT" NAME="INVOICE\_TAX\_AMOUNT" />  
<ATTRIBUTE LABEL="ORGANIZATION KEY" NAME="ORGANIZATION\_KEY" />  
<ATTRIBUTE LABEL="PAID AMOUNT" NAME="PAID\_AMOUNT" />  
<ATTRIBUTE LABEL="PA PROJECT KEY" NAME="PA\_PROJECT\_KEY" />  
<ATTRIBUTE LABEL="PA TASK KEY" NAME="PA\_TASK\_KEY" />  
<ATTRIBUTE LABEL="PERIOD KEY" NAME="PERIOD\_KEY" />  
<ATTRIBUTE LABEL="POSTED FLAG" NAME="POSTED\_FLAG" />  
<ATTRIBUTE LABEL="PO CREATION DATE" NAME="PO\_CREATED\_DATE" />  
<ATTRIBUTE LABEL="PO NUMBER" NAME="PO\_NUMBER" />  
<ATTRIBUTE LABEL="PRODUCT KEY" NAME="PRODUCT\_KEY" />  
<ATTRIBUTE LABEL="RECURRING INVOICE FLAG"  
NAME="RECURRING\_INVOICE\_FLAG" />  
<ATTRIBUTE LABEL="SUB-ACCOUNT KEY" NAME="SUB\_ACCOUNT\_KEY" />  
<ATTRIBUTE LABEL="TRANSLATED CURRENCY CODE"  
NAME="TRANSLATED\_CURRENCY\_CODE" />  
<ATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR\_KEY" />  
</DIMENSION>  
</DP\_DIMENSIONS>  
- <MEASURES LABEL="AP INVOICE DETAILS" NAME="AP\_INV\_DETAIL\_F">  
  <MEASURE LABEL="ACCOUNTING (PRE-AP) LAG DAYS"  
  NAME="ACCOUNTING\_LAG\_DAYS" />  
  <MEASURE LABEL="INVOICE LINE AMOUNT" NAME="INVOICE\_LINE\_AMOUNT" />  
  <MEASURE LABEL="INVOICE LINE EXCHANGE RATE VARIANCE"  
  NAME="INVOICE\_LINE\_EXCH\_RATE\_VAR" />  
  <MEASURE LABEL="INVOICE LINE PRICE VARIANCE"  
  NAME="INVOICE\_LINE\_PRICE\_VARIANCE" />  
  <MEASURE LABEL="NUMBER OF INVOICE LINES"  
  NAME="NUMBER\_INVOICE\_LINES" />  
  <MEASURE LABEL="TRANSLATED CURRENCY AMOUNT"  
  NAME="TRANSLATED\_CURRENCY\_AMOUNT" />  
  <MEASURE LABEL="UNPAID AMOUNT" NAME="UNPAID\_AMOUNT" />  
</MEASURES>  
</DP\_SCHEMA\_DOC>

FIG. 24

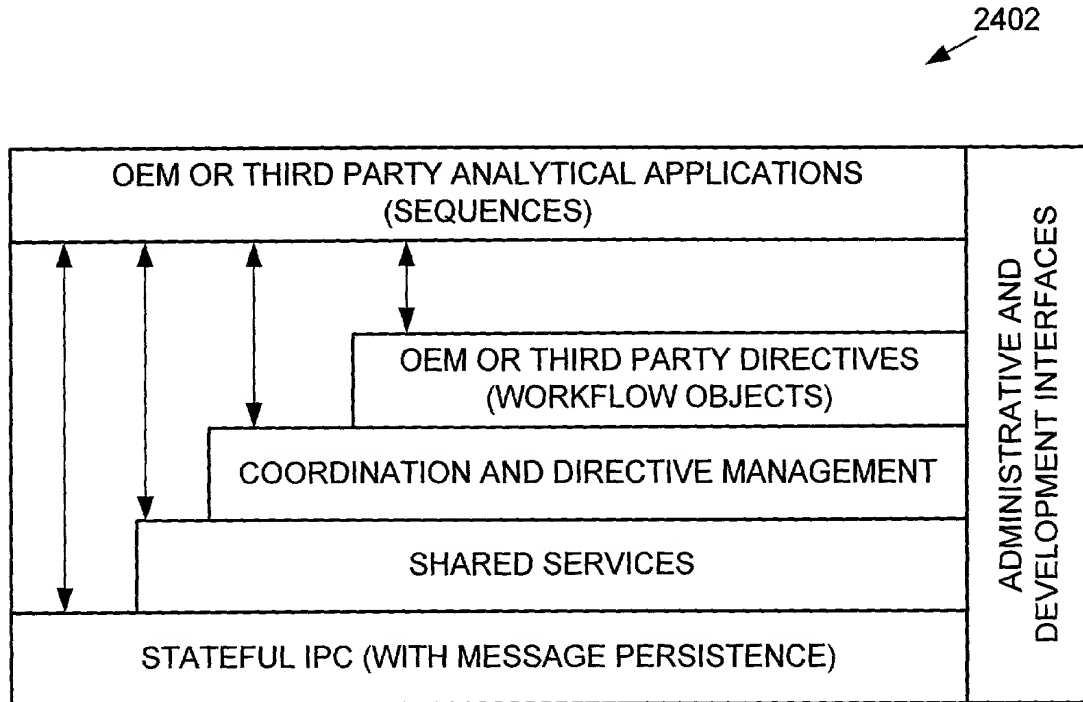


FIG. 25

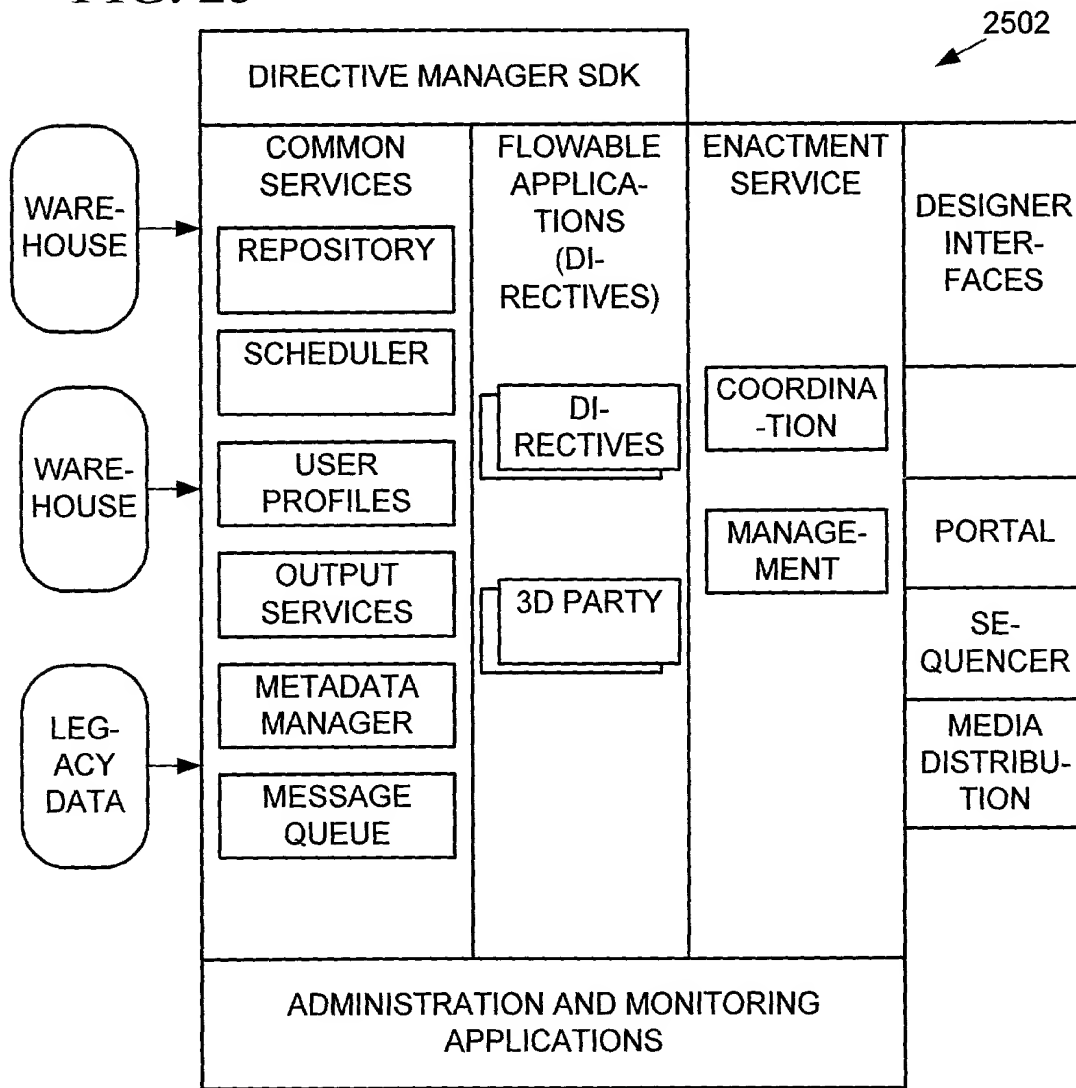
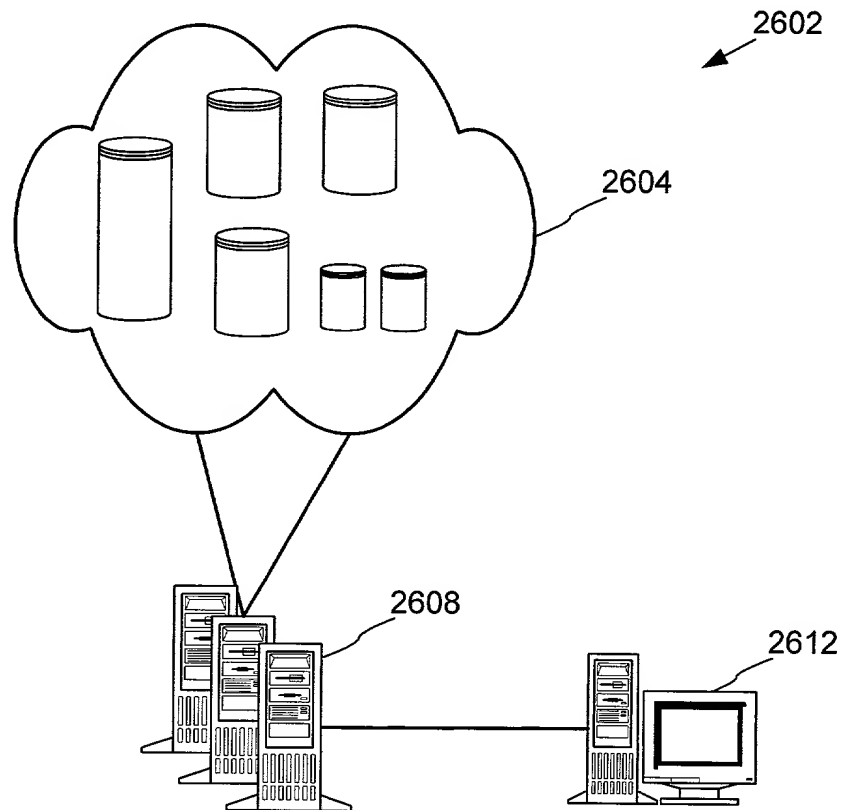


FIG. 26



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